

# LETTERS OF INTEREST AND STATEMENT OF QUALIFICATIONS

Submitted to:

SOUTHERN CALIFORNIA  
RAPID TRANSIT DISTRICT

Prepared by:

RKI/SHARP/WAT&G

NEWPORT BEACH, CA.  
ORINDA, CA.

MARCH 11 1983

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# RKI/SHARP/WWAT&G

AN ASSOCIATION OF ARCHITECTS AND ENGINEERS

110 NEWPORT CENTER DRIVE SUITE 21  
NEWPORT BEACH, CA 92660 (714) 752-8002  
81 AVENIDA DE ORINDA SUITE J  
ORINDA, CALIFORNIA 94563 (415) 254-8440

March 10, 1983

Mr. Maynard A. Walters  
Director, Purchasing and Stores  
Southern California Rapid Transit District  
124 West Fourth Street  
Los Angeles, CA 90013

Subject: Letter of Interest and Statement of Qualifications  
for Metro Rail Continuing Preliminary Engineering

Dear Sir:

We are pleased to submit for your consideration, this Letter of Interest and Statement of Qualifications for the subject project. As indicated in the accompanying qualifications package, our Project Team is composed of several small firms, with extensive involvement of MBE and WBE firms. Each firm has outstanding technical abilities within their respective disciplines, and each has an extensive record of successfully completed projects of similar complexity.

#### PROJECT TEAM

The prime contractor, RKI/SHARP/WWAT&G, is composed of three firms: RKI International (structural engineers), Sharp Engineering (civil and structural engineers), and WWAT&G (architects and planners). RKI/SHARP/WWAT&G will be responsible for approximately 60 percent of this contract. This association will be supported by three subcontractors: Creegan and D'Angelo for civil engineering, Charles & Braun for mechanical engineering, and Silverman & Light for electrical engineering.

#### QUALIFICATIONS OF THE PROJECT TEAM

The experience of our team encompasses mass transit systems, subway lines and subway stations, tunnels, bridges and viaducts, and commercial and office structures with underground levels. In particular, this experience includes mass transit systems in the San Francisco Bay Area; Houston, TX; Baltimore, MD; Buffalo, NY; San Jose, CA; Miami, FL; Atlanta, GA; Pittsburgh, PA; Washington, DC; Hawaii, and Singapore.

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#### QUALIFICATIONS OF PROPOSED STAFF

Our proposed project management and key design staff have the necessary education and technical qualifications, and maintain California registrations within their respective disciplines. The experience of this personnel covers planning, design, and construction of recent mass transit projects in 12 urban areas in the U.S. and abroad. In particular, our Project Manager, Sharad Pandya, and the head of our Management Technical Review Board, Kirit Shah, combined together, have worked on most of the major rapid transit systems begun in the U.S. during the past 20 years.

#### MANAGEMENT PLAN

Our management plan has been developed to enable our member firms to function and communicate as a team, well-organized and efficient for this contract. A continuity is provided by a core management team and core design team involving all major disciplines, who will follow this project through this contract and subsequent phases. Functional specialists, technical staff, and production staff will be brought on board only as their skills are required. This structure will ensure that communication is maintained throughout the project, that the project team is flexible to the day-to-day demands of the project, and that the project organization avoids the burdens and inefficiencies of a static structure.

#### MBE/WBE PARTICIPATION

Our project team provides a major role for MBE/WBE firms. Two MBE firms, RKI International and Sharp Engineering, are members of the prime contractor association. Silverman & Light, a WBE firm, will be responsible for electrical engineering.

#### PROJECT APPROACH

As reflected in the composition of our project team, our approach to this assignment will emphasize sound engineering solutions that are constructible and cost effective. In this respect, we intend to carefully examine the construction methods required for various project elements in order to minimize the disruptive impact of cut-and-cover operations. In particular, these operations have the potential to disrupt major traffic corridors, seriously affect the economic health of surrounding businesses, and greatly increase neighborhood noise levels.


#### CONCLUSION

In developing our project team, we have assembled the technical capabilities and specialized experience necessary to undertake the Metro Rail transit project. We appreciate this opportunity to present our qualifications for your review, and eagerly look forward to the chance of working with the District on this challenging assignment.

Sincerely,

RKI/SHARP/WWAT&G

an association of engineers and architects

  
Key S. Kwak, Principal-In-Charge

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**IDENTIFICATION OF  
TEAM MEMBERS**

## I. IDENTIFICATION OF TEAM MEMBERS

### A. PRIME CONTRACTOR

RKI/Sharp/WWAT&G is an association of three firms: RKI International, Sharp Engineering, and Wimberly, Whisenand, Allison, Tong, and Goo. The first two members of this association are MBE firms.

RKI International is a minority owned and operated firm specializing in structural engineering. Begun in 1965 and operating under its present name since 1977, RKI has been responsible for the structural design of office buildings, parking garages, commercial and industrial facilities, and residential structures. During the past five years, the firm has completed design drawings for projects in excess of \$250 million. The firm is located in Orinda, CA.

Sharp Engineering is a minority owned and operated small business firm providing civil and structural engineering services. The Principals and Associates of this firm have broad experience in the planning, design, and construction of new structures as well as rehabilitation and expansion of existing structures. For rapid transit facilities, this experience covers subway stations, aerial and subway lines, and overall project planning for systems in San Francisco Bay Area; Buffalo, NY; Washington, DC; Houston, TX; Miami, FL; Baltimore, MD; Pittsburgh, PA; and Atlanta, GA. The firm is located in San Pablo, CA.

Wimberly, Whisenand, Allison, Tong & Goo has provided a broad range of architectural services since its founding in 1945. Operating from offices in Newport Beach, CA and Honolulu, the firm has been responsible for a wide range of projects in the United States and in 18 other Pacific Rim nations. This experience includes a number of mass transit facilities, such as a monorail system and stations for Santosa Island in Singapore, a station for the monorail system in Disneyworld Florida, and terminals for the Kaanapoli Lahaina Railway in Maui.

The firm's current services include architecture, engineering, landscape architecture, interior design, urban and regional planning, site analysis and planning, environmental impact statements, graphics, and architectural modeling. Past projects include transportation centers, civic centers, shop-

ping malls, hotels and condominiums, convention and recreation facilities, communication facilities, banks and commercial complexes, office buildings, theaters, museums, churches, and restaurants. To date, the firm's designs have received 28 major design awards.

#### B. SUBCONTRACTORS

In addition to the three associated firms, our project team includes three subcontractors: Creegan & D'Angelo, Silverman & Light, and Charles & Braun.

Creegan and D'Angelo is a civil and transportation engineering firm with over 25 years of experience in the design of grade separation structures, parking structures, bridges, and expressways throughout California and Nevada. The firm currently is involved in the largest integrated transportation projects in California, including the San Jose Transit Mall and the Guadalupe Corridor light rail system. The firm's headquarters are in San Jose, with 6 other offices in California and Nevada.

Silverman & Light, Inc. is a WBE firm specializing in electrical engineering and lighting design. Established in 1976, the firm's experience covers major office buildings, commercial facilities, hotels, civic centers, and terminal buildings. The firm is located in Oakland, CA.

Charles & Braun has provided mechanical engineering services on over 2,500 projects since its founding in 1958. The firm's experience covers high-rise office buildings, major hotels, industrial plants, and condominium complexes. The firm is located in San Francisco, CA.

#### C. CAPACITY TO UNDERTAKE THE SUBJECT PROJECT

As reflected in the Standard Form 254 provided for each firm in Section II, the individual members of our project team possess adequate financial resources to undertake the subject project. Technically, the ability to undertake this assignment is demonstrated by a combined project team staff of 168 design professionals and support personnel.

# EXPERIENCE OF FIRMS

## II. EXPERIENCE OF FIRMS

The experience of our project team over the last five years is described in the Standard Form 254 provided for each member firm. This experience includes assignments directly related to the Metro Rail project, specifically the planning, design, and construction of subway stations, subway lines, and aerial lines for other rapid transit projects elsewhere in the United States and in Singapore. Related experience includes elevated freeway structures, above- and underground parking structures, commercial and office complexes, and other transportation and structural projects.

In addition, the following experience list provides further information on selected projects. Please note that because Sharp Engineering is a relatively new firm, most projects cited for the firm are from the individual experience of the principals. For the same reason, the client contact given for these projects generally is a responsible officer of the contracting firm, who is most familiar with the performance of the Sharp Engineering principals.



Project	Nature of Work	Cost	Completion Date	Client Contact
<u>RKI International:</u>				
THE PORT TOWER	Structural design for a 15-story office building with 600-car garage.	\$20,000,000	In bidding	Howard Schopman Storek & Storek (415) 981-3800
TISHMAN CENTER Walnut Creek, CA	Structural design for a 10-story and 5-story office towers over a 3-level parking structure	54,000,000	Under construction	David Hobstetter Kaplan/McLaughlin/ Diaz (415) 398-5191
WALNUT CREEK CENTER ONE & TWO Walnut Creek, CA	Structural design for 7-story office towers over 3-level, 240,000 s.f. parking structure	32,000,000	1982	"
SFIOC OFFICE CENTER Burlingame, CA	Structural design for 9-story office tower with 3 levels of office below grade	6,000,000	1980	Charles King Charles King & Associates (415) 854-0506
O'CONNOR HOSPITAL PARKING STRUCTURE San Jose, CA	Structural design for 3-story, 96,000 s.f. parking structure	2,600,000	1979	Phil Miranda Carl N. Swenson Co. (408) 287-9550
<u>Sharp Engineering:</u>				
BART KE LINE AND MACARTHUR CROSSOVERS Oakland, CA	Specifications for new track and turnouts.	14,000,000	1981	Harry Foster Foster Engineering San Francisco, CA
HUMBOLDT SUBWAY STATION Buffalo, NY	Structural design and project specifications for new subway station	11,000,000	1981	"
JUDICIARY SQUARE SUBWAY STATION Washington, DC	Civil design for construction of cut and cover subway station	25,000,000	1971	Gordon H. Bale, Inc. Danville, CA

Project	Nature of Work	Cost	Completion Date	Client Contact
EMBARCADERO SUBWAY STATION San Francisco, CA	Structural design and construction management	20,000,000	1970	W.J. Armento PBQ&D Inc. San Francisco, CA
DUPONT CIRCLE SUBWAY STATION Washington, DC	Structural design	n/a	1971	Zoltan Stacko Raymond-Kaiser Engineers Oakland, CA
WABASH TUNNEL Pittsburgh, PA	Transit tunnel design	n/a	1974	"
BALTIMORE RAPID TRANSIT SYSTEM Baltimore, MD	Structural design	n/a	1977	"
AVONDALE SHOPS (MARTA) Atlanta, GA	Project coordination	n/a	1976	"
RAPID TRANSIT SYSTEM & PALMETTO MAINTENANCE YARD Miami, FL	Project coordination	n/a	1980	"
<u>WWAT&amp;G:</u>				
MONORAIL SYSTEM Santosa Island, Singapore	Planning and architectural design for all monorail system stations for a major theme park area, with large crowds and heavy peak time travel	n/a	n/a	n/a
KAANAPOLI LAHAINA RAILWAY TERMINALS Kaanapoli, Maui	Architectural design	n/a	n/a	n/a
SEA-FLIGHT TERMINAL FACILITIES Hawaii	Planning and architectural design	n/a	n/a	n/a

Project	Nature of Work	Cost	Completion Date	Client Contact
MONORAIL STATION Disneyworld, FL	Architectural design for a new station, interfacing a number of transportation systems with the monorail system	n/a	n/a	n/a
<u>Creegan and D'Angelo:</u>				
SAN JOSE TRANSIT MALL San Jose, CA	Civil design for light rail transit system	19,000,000	1985	Santa Clara Transportation Agency San Jose, CA
GUADALUPE CORRIDOR Santa Clara County, CA	Preliminary civil design for 19-mile expressway/light rail transit system	500,000,000	1985	"
<u>Silverman and Light, Inc.</u>				
UNION CITY CIVIC CENTER Union City, CA	Electric engineering	3,000,000	n/a	City of Union City Union City, CA
TISHMAN OFFICE COMPLEX Walnut Creek, CA	Design of lighting and electrical engineering for 400,000 s.f. office complex	50,000,000	Under Construction	Kaplan/McLaughlin/ Diaz
<u>Charles and Braun:</u>				
AIR QUALITY CONTROL Fremont, CA	Mechanical design for auto manufacturing plant	75,000	1979	General Motors Corporation Fremont, CA
BUILDINGS 4 AND 5 Santa Clara, CA	Mechanical and plumbing design for office buildings	875,000	1980	Rolm Corporation Santa Clara, CA
DISTRIBUTION CENTER Irvine, CA	Mechanical design	1,200,000	1981	Lucky Stores, Inc. San Leandro, CA

**254 FORMS**

**STANDARD FORM (SF) 254**  
 Architect-Engineer and Related Services Questionnaire

1. Firm Name / Business Address:  
 RKI International Consulting Engineers, Inc.  
 61 Avenida de Orinda  
 Orinda, CA 94563  
 1a. Submittal is for  Parent Company  Branch Office

2. Year Present Firm Established: 1977  
 3. Date Prepared: March 9, 1983  
 4. Type of Ownership:  
 4a. Minority Owned  yes  no

5. Name of Parent Company, if any:  
 N/A

5a. Former Firm Name(s), if any, and Year(s) Established:  
 Donald B. Rush, Structural Engineer, Inc. - 1965

6. Names of not more than Two Principals to Contact: Title / Telephone  
 1) Donald B. Rush/Principal/(415) 254-6440  
 2) Key S. Kwak/Principal/(415) 254-6440

7. Present Offices: City / State / Telephone / No. Personnel Each Office  
 Orinda/CA/(415) 254-6440/9

7a. Total Personnel 9

8. Personnel by Discipline:

<input checked="" type="checkbox"/> Administrative	<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Oceanographers
<input type="checkbox"/> Architects	<input type="checkbox"/> Estimators	<input type="checkbox"/> Planners: Urban/Regional
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geologists	<input type="checkbox"/> Sanitary Engineers
<input checked="" type="checkbox"/> Civil Engineers	<input type="checkbox"/> Hydrologists	<input type="checkbox"/> Soils Engineers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Specification Writers
<input checked="" type="checkbox"/> Draftsmen	<input type="checkbox"/> Landscape Architects	<input checked="" type="checkbox"/> Structural Engineers
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Surveyors
<input type="checkbox"/> Economists	<input type="checkbox"/> Mining Engineers	<input type="checkbox"/> Transportation Engineers

9. Summary of Professional Services Fees Received: (insert index number)

	Last 5 Years (most recent year first)				
	19 82	19 81	19 80	19 79	19 78
Direct Federal contract work, including overseas					
All other domestic work	4	3	3	3	2
All other foreign work*					

\*Firms interested in foreign work, but without such experience, check here:

**Ranges of Professional Services Fees INDEX**

- Less than \$100,000
- \$100,000 to \$250,000
- \$250,000 to \$500,000
- \$500,000 to \$1 million
- \$1 million to \$2 million
- \$2 million to \$5 million
- \$5 million to \$10 million
- \$10 million or greater

**10. Profile of Firm's Project Experience, Last 5 Years**

Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)
1) 010	1	12,	11) 089	1	40,	21)		
2) 011	1	9,	12) 095	30	300,	22)		
3) 017	4	50,	13) 113	3	30,	23)		
4) 019	4	160,	14)			24)		
5) 039	5	190,	15)			25)		
6) 045	6	620,	16)			26)		
7) 048	1	130,	17)			27)		
8) 049	2	200,	18)			28)		
9) 052	12	150,	19)			29)		
10) 072	14	700,	20)			30)		

**11. Project Examples, Last 5 Years**

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (In thousands)	Completion Date (Actual or Estimated)
010	C	1 BEQ Mare Island Vallejo, CA	NAVFACENGCOC Western Division San Bruno, CA	2,500,	1977
011	C	2 Rockville Road Crossing Fairfield, CA	City of Fairfield Fairfield, CA	400,	1981
017	C	3 Safeway Store #971 Hayward, CA	Safeway Stores 201 4th Street Oakland, CA	2,000,	1980
017	C	4 J.C. Penney Store Cupertino, CA	J.C. Penney New York, NY	3,500,	1979
017	C	5 New York Fabrics Retail Store Santa Rosa, CA	New York Fabrics Oakland, CA	1,600,	1980
019	C	6 Levi Plaza Building E San Francisco, CA	Inter-Jal One Greenwich St. San Francisco, CA	4,500,	1981
019	C	7 Intersil Headquarters Santa Clara, CA	Intersil 10710 N. Tantau Ave. Cupertino, CA	6,000,	1983

019	C	8 GSA Social Security Center Salinas, CA	General Services Administration San Francisco, CA	2,400, 0'000	1979 1983
039	C	9 Bullocks Parking Structure Stonestown Shopping Center	Bullocks Stonestown Shopping 285 Winston Drive San Francisco, CA	3,200, 0'000	1977 1977
039	C	10 O'Conner Hospital Parking Structure San Jose, CA	O'Connor Hospital 2105 Forest Ave. San Jose, CA	2,600, 1'000	1979 1979
039	C	11 The Port Tower Parking Garage Oakland, CA	City of Oakland Port Authority	4,600, 0'000	1984 1984
045	C	12 Tishman Office Center Walnut Creek, CA	Tishman Company 10960 Wilshire Blvd. Los Angeles, CA	54,000, 0'000	1984 1984
045	C	13 Walnut Creek Center Walnut Creek, CA	Carma Developers 595 Market St. San Francisco, CA	32,000, 0'000	1982 1982
045	C	14 Fresno Commerce Center Fresno, CA	Klein Properties Ltd. 83 E. Shaw Ave. Fresno, CA 93710	12,000, 0'000	1984 1984
045	C	15 The Port Tower Oakland, CA	Storek & Storek 530 Bush Street San Francisco, CA 94108	16,500, 0'000	1984 1984
048	C	16 Dominican Hospital Santa Cruz	Dominican Hospital Soquel Drive Santa Cruz, CA	8,800, 0'000	1983 1983
049	C	17 Hotel Versailles San Jose, CA	Jack Horton 505 Laurelwood Road Santa Clara, CA	6,500, 0'000	1983 1983
049	C	18 Howard Johnson Hotel Walnut Creek	Harry Riskas 1103 Juanita, Suite B Burlingame, CA	4,500, 0'000	1984 1984
052	C	19 Syntex Bldg. R5 Palo Alto, CA	Syntex Corp. 2401 Hillview Ave. Palo Alto, CA	2,500, 0'000	1978 1978

052	C	20 Dataquest Facility San Jose, CA	Dataquest, Inc. 10340 Bubb Road Cupertino, CA	5,000,	1982
052	C	21 Lone Star Control Bldg. Santa Clara	Lone Star Industries Davenport, CA	2,100,	1980
072	C	22 California Center Sacramento, CA	Carma Developers 595 Market Street San Francisco, CA	7,200,	1982
072	C	23 One Bay Plaza Burlingame, CA	Charles King Associates 1350 Bayshore Hwy Burlingame, CA	6,000,	1980
072	C	24 Stevens Creek Office Bldg Cupertino	Carl N. Swenson Co. P.O. Box 1337 San Jose, CA	5,500,	1981
089	C	25 Crow Canyon Executive Park San Ramon, CA	John Moore 1320 El Capitan Dr. San Ramon, CA	2,800,	1980
095	C	26 Tishman Office Center Walnut Creek, CA	Tishman Co. 10960 Wilshire Blvd. Los Angeles, CA	54,000,	1984
095	C	27 One Bay Plaza Burlingame, CA	Charles King Associates 1350 Bayshore Hwy Burlingame, CA	6,000,	1980
095	C	28 Walnut Creek Center Walnut Creek, CA	Carma Developers 595 Market Street San Francisco, CA	32,000,	1982
113	C	29 Acme Scales San Leandro, CA	Acme Scale Co. 1801 Adams St. San Leandro, CA	600,	1979
113	C	30 Ford Truck Sacramento, CA	Ford Truck Sales	660,	1980

12. The foregoing is a statement of facts

Signature: Donald B. Rush

Typed Name and Title: Donald B. Rush, Principal

Date:

3/9/83



**STANDARD FORM (SF) 254**  
 Architect-Engineer and Related Services Questionnaire

1. Firm Name / Business Address:  
 Sharp Engineering  
 5250 Riverside Avenue  
 P.O. Box 5478  
 Richmond, CA 94805  
 1a. Submittal is for  Parent Company  Branch Office

2. Year Present Firm Established:  
 1981

3. Date Prepared:  
 Jan. 11 1983

4. Type of Ownership:  
 4a. Minority Owned  yes  no

5. Name of Parent Company, if any:  
 N/A

5a. Former Firm Name(s), if any, and Year(s) Established:  
 Sharad J. Pandya, Consulting Engineer  
 1979

6. Names of not more than Two Principals to Contact: Title / Telephone  
 1) Sharad J. Pandya, Principal / (415) 236-7174  
 2) Kirit N. Shah, Principal / (415) 236-7174

7. Present Offices: City / State / Telephone / No. Personnel Each Office  
 Richmond, California (415) 236-7174

7a. Total Personnel 7

8. Personnel by Discipline:

<u>1</u> Administrative	<u>    </u> Electrical Engineers	<u>    </u> Oceanographers
<u>1</u> Architects	<u>(1)</u> Estimators	<u>    </u> Planners: Urban/Regional
<u>    </u> Chemical Engineers	<u>    </u> Geologists	<u>    </u> Sanitary Engineers
<u>(2)</u> Civil Engineers	<u>    </u> Hydrologists	<u>    </u> Soils Engineers
<u>(1)</u> Construction Inspectors	<u>    </u> Interior Designers	<u>(1)</u> Specification Writers
<u>2</u> Draftsmen	<u>    </u> Landscape Architects	<u>2</u> Structural Engineers
<u>    </u> Ecologists	<u>    </u> Mechanical Engineers	<u>    </u> Surveyors
<u>    </u> Economists	<u>    </u> Mining Engineers	<u>    </u> Transportation Engineers

(1) Computer Specialist  
(1) Cost Engineer  
( ) Multi-Discipline

9. Summary of Professional Services Fees Received: (insert index number)

	Last 5 Years (most recent year first)				
	19 82	19 81	19 N/A	19 N/A	19 N/A
Direct Federal contract work, including overseas					
All other domestic work	<u>1</u>	<u>1</u>			
All other foreign work*					

\*Firms interested in foreign work, but without such experience, check here:

- Ranges of Professional Services Fees**
1. Less than \$100,000
  2. \$100,000 to \$250,000
  3. \$250,000 to \$500,000
  4. \$500,000 to \$1 million
  5. \$1 million to \$2 million
  6. \$2 million to \$5 million
  7. \$5 million to \$10 million
  8. \$10 million or greater

10. Profile of Firm's Project Experience, Last 5 Years

Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)
1)			11)			21)		
2)			12)			22)		
3)			13)			23)		
4)			14)			24)		
5)	N/A - Newly organized firm		15)			25)		
6)			16)			26)		
7)			17)			27)		
8)			18)			28)		
9)			19)			29)		
10)			20)			30)		

11. Project Examples, Last 5 Years

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (In thousands)	Completion Date (Actual or Estimated)
011	IE	1 Giant Highway Bridge Giant Highway at Road 20 San Pablo, CA	City of San Pablo Alvarado Square San Pablo	284	1980
029	P	2 Eight Portable Classrooms Nogales School La Puente, CA	Rawlands School District La Puente, CA	N/A	1979
048	P	3 Mobile Health Care Facility Berkeley, CA	Health Services Foundation Berkeley, CA	N/A	1978
052	IE	4 Rigging Shop Mare Island Naval Shipyard Vallejo, CA	Western Division, Naval Facilities Engineering Command San Bruno, CA	8800	1981
071	IE	5 Fuels and Materials Examination Facility Hanford, Washington	Department of Energy Hanford, Washington	100,000	1980
076	IE	6 Flammable Liquid Storage Facility San Francisco, CA	Independent Oil Company San Francisco, CA	300	1981
087	IE	7 Construction of KE Line and MacArthur Crossovers Oakland, CA	Bay Area Rapid Transit District 800 Madison Street Oakland, CA 94607	14,000	1981

087	IE	8 Avondale Shops Atlanta, GA	MARTA Atlanta, GA	N/A	1976
087	IE	9 Rapid Transit System Palmetto Yard Maintenance and Complex Miami, FL	Metropolitan Dade County Miami, FL	N/A	1980
089	IE	10 Buildings 11 and 12 South San Francisco, CA	Wildburg Brothers Smelting and Refining Company South San Francisco, CA	*2	1980
089	IE	11 Pt. Bonita Suspension Bridge Rehabilitation P. Bonita Light Station, CA	12th Coast Guard District San Francisco, CA	300	1978
095	IE	12 EASO Classrooms Naval Air Station Moffett Field, CA	Western Division Naval Facilities Engineering Command San Bruno, CA	*20	1979
096	IE	13 Industrial Shores Water Pollution Control Facilities Contra Costa County, CA	Contra Costa County Sanitation District No. 7A, 595 Black Diamond Pittsburgh, CA 94565	37,000	1981
101	IE	14 Pipe Supports Surrey I Nuclear Power Plant Williamsburg, VA	Quadres (NSC) 1700 Dell Avenue Campbell, CA 95008	*33	1979
105	IE	15 Emergency Radio Telephone Network Kingdom of Saudi Arabia	Granger Associates Menlo Park, CA	N/A	1979
107	IE	16 Travis Boulevard Overcrossing Fairfield, CA	City of Fairfield 1000 Webster Street Fairfield, CA 94533	2600	1981
108	IE	17 Design of Foundations Cable TV Tower Foster City, CA	Cable TV Franchise for Foster City, CA	N/A	1979
108	IE	18 Modification of KEPR/KIMA Transmitter Tower (guyed) Tricities, WA	Station KEPR/KIMA Tricities, WA	N/A	1977
109	IE	19 Humboldt Station Buffalo LRRT System Buffalo, NY	Niagara Frontier Transportation Auth. 181 Ellicott Street Buffalo, NY 14205	11,000	1981

109	IE	20 DuPont Circle Subway Station Washington, D.C.	WMATA Washington, D.C.	N/A	1971
109	IE	21 Wabash Tunnel (TERL) Pittsburgh, PA	PAT Pittsburgh, PA	N/A	1974
109	IE	22 Baltimore Rapid Transit System	MTA Baltimore, MD	N/A	1977
116	IE	23 High Pressure Air and Water Systems for Air Tunnel Moffett Field, CA	NASA - Ames Research Center Moffett Field, CA	700	1977
201	IE	24 Construction of Underground Plants, Various Locations San Francisco-Bay Area, CA	Pacific Telephone San Francisco, CA	N/A	1980
		25			
		26			
		27			
		28			
		29			
		30			

12. The foregoing is a statement of facts

Signature: Sharad J. Pandya

Typed Name and Title: Sharad J. Pandya, Principal

Date:

March 1, 1983

**STANDARD FORM (SF) 254**  
 Architect-Engineer and Related Services Questionnaire

**1. Firm Name / Business Address:**  
 Wimberly, Whisenand, Allison, Tong & Goo Architects, Ltd.  
 2222 Kalakaua Avenue, Penthouse  
 Honolulu, Hawaii 96815  
**1a. Submittal is for**  Parent Company  Branch Office

**2. Year Present Firm Established:**  
 1945

**3. Date Prepared:**  
 January 1, 1983

**4. Type of Ownership:**  
**4a. Minority Owned**  yes  no

**5. Name of Parent Company, if any:**  
 N/A

**5a. Former Firm Name(s), if any, and Year(s) Established:**  
 Wimberly & Cook, 1945 - 1956

**6. Names of not more than Two Principals to Contact: Title / Telephone**  
 1) Donald W.Y. Goo, Principal/(808) 922-1253  
 2) Gerald L. Allison, Principal/(714) 759-8923

**7. Present Offices: City / State / Telephone / No. Personnel Each Office**  
 Wimberly, Whisenand, Allison, Tong & Goo Architects, Ltd.  
 Honolulu, Hawaii 96815  
 Phone No. (808) 922-1253  
  
 110 Newport Center Drive  
 Newport Beach, CA 92660  
 Phone No. (714) 759-8923

**7a. Total Personnel** 37

**8. Personnel by Discipline:**

<u>9</u> Administrative	<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Oceanographers
<u>14</u> Architects	<input type="checkbox"/> Estimators	<u>4</u> Planners: Urban/Regional
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geologists	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Hydrologists	<input type="checkbox"/> Soils Engineers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Specification Writers
<u>10</u> Draftsmen	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Surveyors
<input type="checkbox"/> Economists	<input type="checkbox"/> Mining Engineers	<input type="checkbox"/> Transportation Engineers

**9. Summary of Professional Services Fees Received: (insert index number)**

	Last 5 Years (most recent year first)				
	1982	1981	1980	1979	1978
Direct Federal contract work, including overseas					
All other domestic work	<u>5</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>
All other foreign work*	<u>5</u>	<u>5</u>	<u>5</u>	<u>3</u>	<u>2</u>

\*Firms interested in foreign work, but without such experience, check here:

- Ranges of Professional Services Fees INDEX**
1. Less than \$100,000
  2. \$100,000 to \$250,000
  3. \$250,000 to \$500,000
  4. \$500,000 to \$1 million
  5. \$1 million to \$2 million
  6. \$2 million to \$5 million
  7. \$5 million to \$10 million
  8. \$10 million or greater

**10. Profile of Firm's Project Experience, Last 5 Years**

Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)
1) 008	7	500	11) 079	10	1,000	21)		
2) 014	3	200	12) 087	1	75	22)		
3) 017	4	500	13) 088	5	800	23)		
4) 027	10	750	14) 089	4	100	24)		
5) 039	1	100	15) 103	5	80	25)		
6) 041	1	50	16)			26)		
7) 049	11	22,000	17)			27)		
8) 050	13	2,700	18)			28)		
9) 055	8	170	19)			29)		
10) 072	2	500	20)			30)		

**11. Project Examples, Last 5 Years**

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (in thousands)	Completion Date (Actual or Estimated)
027	P	1 Columbia Inn Honolulu, Hawaii	Columbia Inn Ltd. 645 Kapiolani Blvd. Honolulu, Hawaii 96813	1,500	1982
008	P	2 Kahilu Theater Waimea, Hawaii	Parker School Trust 700 Bishop St., Suite 609 Honolulu, Hawaii 96813	2,000	1980
049	JV	3 Sydney Hotel Sydney, Australia	Leighton Properties Pty., Ltd. P.O. Box 175 Summer Hill, NSW 2130, Australia	35,000	1985
017	P	4 Olympic Square Pearl City, Hawaii	Alimanu Development Corp. 436 Piikoi Street Honolulu, Hawaii 96814	2,500	1981
049 (039) (041)	JV	5 Hyatt Maui Hotel	Hemmeter Investment Co. 2424 Kalakaua Avenue Honolulu, Hawaii 96815	70,000	1980
050 (103)	P	6 Blackfield Twenty-One Hundred Condominium Honolulu, Hawaii	Blackfield Hawaii Corporation 1221 Kapiolani Blvd., Suite 700 Honolulu, Hawaii 96814	10,000	1979
050	P	7 Salishan Condominium Pearl City, Hawaii	Alimanu Development Corp. 436 Piikoi Street Honolulu, Hawaii 96814	10,000	1981

017 (055)	P	8	First Hawaiian Bank Kahului, Maui	First Hawaiian Bank 165 South King Street Honolulu, Hawaii 96813	2,500	1982
049	P	9	Sheraton Kauai Hotel Kauai, Hawaii	Ohbyashi-Gumi, Ltd. 190 South King Street, Suite 2680 Honolulu, Hawaii 96813	17,000	1982
	P	10	Tapa Tower Hotel Honolulu, Hawaii	Hilton Hotels Corporation 2005 Kalia Road Honolulu, Hawaii 96815	65,000	1982
050 (103)	P	11	Kahala View Estates Honolulu, Hawaii	ADS Partners 700 Bishop St., Suite 615-B Honolulu, Hawaii 96813	1,300	1979
014	P	12	Hawaii Kai Chapel Oahu, Hawaii	The Church of Jesus Christ of Latter-Day Saints P.O. Box 926 Salt Lake City, Utah 84116	850	1978
088	P	13	Waikoloa Golf Clubhouse Waikoloa, Hawaii	Transcontinental Corp. 420 E. Carrillo St. Santa Barbara, California 93102	900	1981
072 055	P	14	HC&D Credit Union Honolulu, Hawaii	HC&D Employee Credit Union 811 Middle Street Honolulu, Hawaii 96819	215	1979
049	P	15	Sheraton Auckland Hotel Auckland, New Zealand	Devon Development Inc. P.O. Box 6345 Auckland 1, New Zealand	32,000	1982
	P	16	Tanjong Jara Beach Hotel Kuala Trengganu, Malaysia	Rantau Abang Resorts Sdn. Bhd. Ground Floor, Wisman MPI Jalan Raja Chulan Kuala Lumpur, Malaysia	12,000	1980
049	P	17	Pacific Islands Club Tumon, Guam	General Atlantic, Inc. 130 Merchant St., Suite 1808 Honolulu, Hawaii 96813	8,000	1981
008	P	18	Atherton Halau Honolulu, Hawaii	Bishop Museum P.O. Box 19000-A Honolulu, Hawaii 96819	215	1979
049	P	19	Laguna Hotel Laguna Beach, California	Johnson Properties 2175 Parklake Dr. Atlanta, Georgia 30345	35,000	1984

049	P	20	Pelican Bay Hotel Florida	Johnson Properties 2175 Parklake Dr. Atlanta, Georgia 30345	30,000	1984
050	P	21	Tanglin Park Condominium Singapore	Hong Leong Holdings, Ltd. 23rd Hong Leong Bldg. Raffles Quay, Singapore 1	15,000	1984
050	P	22	Astrid Meadows Condominium Singapore	Parkway Properties Ptd. Ltd. Lot 5014, Marine Parade Road Singapore 1544	20,000	1984
055	P	23	Singapore Air VIP Lounge Honolulu, Hawaii	Singapore Airlines 900 Fort Street Mall, #1110 Honolulu, Hawaii 96813	53	1980
055	P	24	ITT - Far East Office Honolulu, Hawaii	ITT Asia Pacific, Inc. 567 S. King St. Honolulu, Hawaii 96813	350	1979
049	P	25	Beverly Hills Hotel Beverly Hills, California	Johnson Properties 2175 Parklake Dr. Atlanta, Georgia 30345	30,000	1984
049	P	26	Cairns Hotel Cairns, Australia	William J. Job & Associates Pty., Ltd. GABBA Towers Vulture St. Brisbane, Australia	50,000	1985
049	P	27	Hyatt Regency Cheju Cheju, Korea	Namju Development Co., Ltd. Kong Pyung Bldg. 5-1, Kong Pyung-Dong Chongro-ku Seoul, Korea	30,000	1984
079	P	28	Munna Point Village Resort Munna Point, Australia	Halgudo Pty. Ltd. 36 Clarence St. Sydney, Australia	50,000	1985
049	JV	29	Telok Senajang Hotel Kemaman, Trengganu, Malaysia	State Economic Development Corp. Tingkat 2, Wisma Maju Jalan Paya Bunga Kuala Trengganu, Malaysia	22,000	1985
		30				

12. The foregoing is a statement of facts.

Signature: Sidney C.L. Char Typed Name and Title: Sidney C.L. Char, Vice President Date: 1 JAN 1983



STANDARD FORM (SF) 254  
 Architect-Engineer and Related Services Questionnaire

1. Firm Name / Business Address:  
 Creegan & D'Angelo, Consulting Engineers  
 1046 West Taylor Street, P. O. Box 26220  
 San Jose, CA 95159

1a. Submittal is for  Parent Company  Branch Office

2. Year Present Firm Established:  
 1956

3. Date Prepared:  
 January 1, 1983

4. Type of Ownership: Corporation  
 4a. Minority Owned  yes  no

3. Name of Parent Company, if any:

5a. Former Firm Name(s), if any, and Year(s) Established:  
 None

6. Names of not more than Two Principals to Contact: Title / Telephone

1) Elmer M. D'Angelo, President (408) 998-1234  
 2) Charles C. Wynn, Vice President (408) 998-1234

7. Present Offices: City / State / Telephone / No. Personnel Each Office

San Jose, CA	(408) 998-1234	-	44
Dublin, CA	(415) 828-4800	-	8
Fairfield, CA	(707) 429-5300	-	13
Fremont, CA	(415) 657-4560	-	10
LandUse, San Ramon, CA	(415) 838-7990	-	8
Monterey, CA	(408) 373-1333	-	5
Zephyr Cove, NV	(702) 588-4588	-	6

7a. Total Personnel 94

8. Personnel by Discipline:

<u>20</u> Administrative	<u>2</u> Electrical Engineers	<u>2</u> Oceanographers	<u>2</u> Environmental Specialists
<u>   </u> Architects	<u>   </u> Estimators	<u>4</u> Planners: Urban/Regional	<u>   </u>
<u>   </u> Chemical Engineers	<u>   </u> Geologists	<u>5</u> Sanitary Engineers	<u>   </u>
<u>20</u> Civil Engineers	<u>4</u> Hydrologists	<u>   </u> Soils Engineers	<u>   </u>
<u>   </u> Construction Inspectors	<u>   </u> Interior Designers	<u>3</u> Specification Writers	<u>   </u>
<u>18</u> Draftsmen	<u>1</u> Landscape Architects	<u>6</u> Structural Engineers	<u>   </u>
<u>   </u> Ecologists	<u>   </u> Mechanical Engineers	<u>7</u> Surveyors	<u>   </u>
<u>1</u> Economists	<u>   </u> Mining Engineers	<u>1</u> Transportation Engineers	<u>   </u>

9. Summary of Professional Services Fees Received: (insert index number)

	Last 5 Years (most recent year first)				
	1982	1981	1980	1979	1978
Direct Federal contract work, including overseas	<u>1</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>
All other domestic work	<u>6</u>	<u>7</u>	<u>6</u>	<u>6</u>	<u>6</u>
All other foreign work*	<u>1</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>1</u>

\*Firms interested in foreign work, but without such experience, check here:

Ranges of Professional Services Fees INDEX

1. Less than \$100,000
2. \$100,000 to \$250,000
3. \$250,000 to \$500,000
4. \$500,000 to \$1 million
5. \$1 million to \$2 million
6. \$2 million to \$5 million
7. \$5 million to \$10 million
8. \$10 million or greater

10. Profile of Firm's Project Experience, Last 5 Years

Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)
1) 008	4	100.	11) 050	151	3,500.	21) 092	45	900.
2) 011	7	1,000	12) 052	70	1,400.	22) 096	17	500.
3) 017	3	75.	13) 056	60	850.	23) 098	1	100.
4) 019	3	30.	14) 068	15	300.	24) 102	110	1,100.
5) 027	10	100.	15) 072	45	1,075.	25) 104	60	350.
6) 033	30	300.	16) 070	28	700.	26) 107	21	400.
7) 039	7	300.	17) 082	3	55.	27) 110	12	450.
8) 045	5	150.	18) 087	1	150.	28) 113	35	400.
9) 046	95	1,200.	19) 088	10	150.	29) 114	75	750.
10) 048	3	350.	20) 089	21	1,000.	30) 115	40	375.

11. Project Examples, Last 5 Years

Profile Code	"P", "C", "JV", or "E"	Project Name and Location	Owner Name and Address	Cost of Work (In thousands)	Completion Date (Actual or Estimated)
008	C	1 Conference & Convention Center Santa Clara, California	City of Santa Clara Santa Clara, California	20,000	1985
011	P	2 State Highway 12 and I-80 Bridge Fairfield, California	CALTRANS Sacramento, California	20,000.	1983
017	C	3 Redlands Shopping Center Redlands, California	Sutter Hill, Ltd., Div. of Genstar Co. Montreal, Canada	10,000.	1982
019	P	4 Computer Data Center San Jose, California	I.B.M. San Jose, California	2,000.	1984
027	P	5 Castlewood Country Club Pleasanton, California	Board of Directors Castlewood Country Club Pleasanton, California	100.	1978
039	C	6 County Transit Bus Maintenance Facilities, San Jose, California	Transportation Department County of Santa Clara, California	20,000.	1982
045	C	7 Eight Story Residential Building Riyadh, Saudi Arabia	Government Consortium Riyadh, Saudi Arabia	2,500	1978

046	P	8 Street Improvements Bayshore North Area City of Santa Clara, California	City of Santa Clara City of Santa Clara, California	25,000.	1976 through 1982
048	C	9 Kaiser Foundation Hospitals Hayward, California	Kaiser Permanente Hayward, California	15,000.	1981
050	P	160 Unit Townhouse Development 10 Hayward, California	Citation Builders San Leandro, California	17,000.	1981
056	JV	11 Irrigation Distribution System for Hollister Subarea, San Felipe Unit Central Valley Project, USBR	Board of Directors San Benito County Water Conservation & Flood Control District, Hollister, CA	20,000.	1982
072	P	12 Oakmead Industrial Office Park Santa Clara, California	Sequoia Pacific Realco Corporation San Francisco, California	1,500.	1981
079	C	13 Naval Supply Center Master Plan Oakland, California	U.S. Navy, Western Division, Naval Facilities Engineering Command San Bruno, California	100. Fee	1981
079	P	14 Carmel Valley Ranch 400 Units, Golf Course, Tennis Club Carmel, California	Landmark Land Company Carmel, California	20,000.	1984
079	P	15 Naval Public Works Center Various Projects, Oakland, California	U.S. Navy, Western, Division, Naval Facilities Engineering Command, San Bruno, California	200.	1982
082	C	16 Main Post Office Pleasanton, California	U.S. Postal Service, Western Region San Bruno, California	250.	1976
087	C	17 San Jose Transit Mall San Jose, California	City of San Jose, California	13,000.	1984
088	P	18 Whittell Regional Park Zephyr Cove, Nevada	Parks & Recreation Commission Douglas County, Minden, Nevada	250.	1977
092	P	19 Saratoga Creek Channel Improvements & Environmental Enhancement Within The City of Santa Clara, California	Santa Clara Valley Water District Alamaden Boulevard San Jose, California	5,200.	1981

096	P	20 Yosemite Sewage System Force Main and Collection System, California	U.S. Department of the Interior National Park Service, Denver, CO	\$ 1,500.	1979
096	P	21 DCSID Sewage Treatment Plant Design (from 2.5 MGD to 3.75 MGD) Expansion	Douglas County Sewer Improvement District No. 1 Zephyr Cove, Nevada	2,100.	1982
096	P	22 Carmel Valley Ranch Wastewater Treatment Plant Carmel, California	Carmel Valley Ranch Carmel, California	1,200	1980
098	C	23 Solar Energy System Yosemite National Park Visitors Center, California	U.S. Department of the Interior National Park Service, Denver, Colorado	372.	1978
102	P	24 Hydrographic and Topographic Surveys Northern California	U.S. Army Corps of Engineers San Francisco, California	100. Fees	1982
104	JV	25 Storm Drainage and Sediment Control Improvements for City of South Lake Tahoe, California	Department of Public Works City of South Lake Tahoe, California	6,000.	1980
107		26 Intersection Signalization at Five (5) Locations in City of Fairfield, CA	City of Fairfield, California	300.	1983
107	C	27 Guadalupe Corridor Mass Transportation San Jose, California	Santa Clara County Transportation Agency, San Jose, California	200,000.	1985
110	JV	28 Downtown Salinas Revitalization 11.5 City Blocks, Salinas, California	Salinas Urban Renewal Agency Salinas, California	1,500.	1980
114	C	29 Guadalupe Corridor Flood Plain Study Santa Clara County, California	Department of Transportation County of Santa Clara, California	200,000	1985
115	P	30 20 Million Gallon Treated Water Storage Facilities and Supply Pipeline, Santa Clara Valley Water District, San Jose	Santa Clara Valley Water District San Jose, California	4,500.	1978

12. The foregoing is a statement of facts

Signature:



Typed Name and Title: Charles C. Wynn, Vice President

Date:

January 1, 1983

**STANDARD FORM (SF) 254**  
 Architect-Engineer and Related Services Questionnaire

1. Firm Name / Business Address:  
 CHARLES/AND/BRAUN//CONSULTING ENGINEERS  
 121 Second Street  
 San Francisco, CA 94105  
 1a. Submittal is for  Parent Company  Branch Office

2. Year Present Firm Established:  
 1958

3. Date Prepared:  
 2/4/83

4. Type of Ownership:  
 4a. Minority Owned  yes  no

5. Name of Parent Company, if any:

5a. Former Firm Name(s), if any, and Year(s) Established:  
 Alfred B. Charles, Mechanical Engineer 1948  
 A.B. Charles Co. 1956

6. Names of not more than Two Principals to Contact: Title / Telephone  
 Richard A. Charles, President (415) 434-2720  
 1) Robert H. Braun, Vice President (415) 434-2720  
 2)

7. Present Offices: City / State / Telephone / No. Personnel Each Office  
 121 Second Street  
 San Francisco, CA 94105

7a. Total Personnel 15

8. Personnel by Discipline:

<u>2</u> Administrative	<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Oceanographers	<u>7</u> Designers
<input type="checkbox"/> Architects	<input type="checkbox"/> Estimators	<input type="checkbox"/> Planners: Urban/Regional	<u>1</u> Draftsman
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geologists	<input type="checkbox"/> Sanitary Engineers	<u>2</u> Project Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Hydrologists	<input type="checkbox"/> Soils Engineers	<u>1</u> Junior Engineer
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Specification Writers	
<input type="checkbox"/> Draftsmen	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Structural Engineers	
<input type="checkbox"/> Ecologists	<u>4</u> Mechanical Engineers	<input type="checkbox"/> Surveyors	
<input type="checkbox"/> Economists	<input type="checkbox"/> Mining Engineers	<input type="checkbox"/> Transportation Engineers	<u>15</u> TOTAL PERSONNEL

9. Summary of Professional Services Fees Received: (Insert index number)

	Last 5 Years (most recent year first)				
	19 81	19 80	19 79	19 78	19 77
Direct Federal contract work, including overseas	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
All other domestic work	<u>4</u>	<u>4</u>	<u>4</u>	<u>3</u>	<u>3</u>
All other foreign work*					

\*Firms interested in foreign work, but without such experience, check here:

Range of Professional Services Fees RECEIVED

- Less than \$100,000
- \$100,000 to \$250,000
- \$250,000 to \$500,000
- \$500,000 to \$1 million
- \$1 million to \$2 million
- \$2 million to \$5 million
- \$5 million to \$10 million
- \$10 million or greater

0. Profile of Firm's Project Experience, Last 5 Years

Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)	Profile Code	Number of Projects	Total Gross Fees (In thousands)
1) 008	3	20	11) 113	56	266	21)		
2) 014	17	20	12) 202	2	75	22) 057	2	150
3) 016	3	50	13) 029	40	200	23) 072	3	300
4) 017	54	432	14) 036	272	200	24) 084	1	27
5) 080	16	148	15) 039	5	95	25)		
6) 084	5	15	16) 040	3	20	26)		
7) 080	500	1500	17) 043	500	1500	27)		
8) 080			18) 050	3	45	28)		
9) 103	272	400	19) 048	1	12	29)		
10) 113	15	126	20) 052	3	200	30)		

11. Project Examples, Last 5 Years

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (In thousands)	Completion Date (Actual or Estimated)
14	C	1 LDS Church San Jose, CA	Church of Latter Day Saints Salt Lake City, Utah	400	Feb. '80
13	C	2 Frozen Food Warehouse Expansion, Oklahoma City, OK	Safeway Stores, Inc. Oakland, CA	1000	July '79
17	C	3 Longs Drugs Store 7th & Thunderbird Phoenix, AZ	Longs Drugs, Inc. Walnut Creek, CA	750 135 (Mech. & Plmb)	1981
17	C	4 Longs Drugs Store Yuma, AZ	Longs Drugs, Inc. Walnut Creek, CA	750 (total cost)	1981
17	C	5 Longs Drugs Store Sun City, AZ	Longs Drugs, Inc. Walnut Creek, CA	750	1979
17	C	6 Longs Drugs Store Palm Springs, CA	Longs Drugs, Inc. Walnut Creek, CA	750	1980
17	C	7 Longs Drugs Store Milpitas, CA	Longs Drugs, Inc. Walnut Creek, CA	750	1980

113	C	8	Distribution Center Houston, TX	Lucky Stores Inc. San Leandro, CA	1000 Mech.& Plmbg.	1981
048	C	9	Chinese Hospital Remodeling San Francisco, CA	Chinese Hospital San Francisco, CA	1500	1980
052	C	10	Bakery Plant Houston, TX	Safeway Stores Inc. Oakland, CA	1500 Mech.& Plmbg.	1981
052	C	11	Milk Plant Houston, TX	Safeway Stores, Inc. Oakland, CA	1750 Mech.& Plmbg.	1981
052	C	12	Rolm Corporation Buildings 4 and 5	Rolm Corporation Santa Clara, CA	875	1980
052	C	13	Milk Plant Escondido, CA	Lucky Stores, Inc. San Leandro, CA	900	1981
053	C	14	Air Quality Control Facility Fremont, CA	General Motors Corporation Fremont, CA	75	1979
072	C	15	Administration Building Livermore, CA	City of Livermore, CA	135	1979
104	C	16	Matson Container Yard Los Angeles, CA	Matson Navigation Co. San Francisco, CA	12	1980
104	C	17	Port of Richmond Richmond, CA	Port of Richmond Richmond, CA	6	1979
113	C	18	Santa Rosa Distribution Center Santa Rosa, CA	Market Wholesalers Santa Rosa, CA	750	1980
113	P	19	Refrigerated Warehouse Stockton, CA	Levi-Zentner Co. Stockton, CA	135	1980

017	C	20	Longs Drugs Store	Longs Drugs, Inc. Walnut Creek, CA	750	1979
052	C	21	Cantaloupe Cooling System Firebaugh, CA	Levy-Zentner Co. Firebaugh, CA	350	1982
049	C	22	Ramada Hotel San Francisco, CA	Interland Corp. San Francisco, CA	11,000	1983
029	C	23	Los Cerros School Reconstruction	San Ramon Unified School District	83	1980
032	P	24	Energy Conservation Measures Treasure Island & Lemoore	U.S. Naval Facilities Command San Bruno, CA	75	1979
032	P	25	Energy Conservation Measures John Muir Hospital Walnut Creek, CA	John Muir Hospital Walnut Creek, CA	300	1982
029	C	26	Mather AFB Child Care Center Sacramento, CA	Mather AFB Sacramento, CA	83	1980
035	C	27	Fairfield Sports Center Fairfield, CA	City of Fairfield, CA	131	1978
032	C	28	Distribution Center Irvine, CA	Lucky Stores, Inc. San Leandro, CA	1,200	1981
052	C	29	Milk Plant Expansion Clovis, NM	Safeway Stores, Inc. Oakland, CA	100	1977
043	P	30	Napa State Hospital New Boiler Plant Imola, CA	Office of the State Architect Sacramento, CA	2,000	1981

12. The foregoing is a statement of facts

Signature: *Robert H. Braun* Typed Name and Title: ROBERT H. BRAUN - VICE PRESIDENT

Date:

FEBRUARY 4, 1982



STANDARD FORM (SF) 254 Architect-Engineer and Related Services Questionnaire

1. Firm Name / Business Address: Silverman and Light, Inc. 618 Grand Ave. Oakland, Ca. 94610 1a. Submittal is for [ ] Parent Company [ ] Branch Office

2. Year Present Firm Established: 1978

3. Date Prepared: October 29, 82

4. Type of Ownership: 4a. Minority Owned [ ] yes [ ] no 4b. Woman Owned [x] yes [ ] no

5. Name of Parent Company, if any:

5a. Former Firm Name(s), if any, and Year(s) Established: Engineering Design Associates, Established 1976

6. Names of not more than Two Principals to Contact: Title / Telephone 1) Charles Silverman, President 2) Carol Light, Vice President (415) 835-1440

7. Present Offices: City / State / Telephone / No. Personnel Each Office Oakland, California (415) 835-1440

7a. Total Personnel 6

8. Personnel by Discipline: 1 Administrative, 2 Electrical Engineers, 1 Control Systems Engineer, etc.

Table with 5 columns: Description, 1982, 1981, 1980, 1979, 1978. Rows include Direct Federal contract work, All other domestic work, All other foreign work.

- Ranges of Professional Services Fees INDEX 1. Less than \$100,000 2. \$100,000 to \$250,000 3. \$250,000 to \$500,000 4. \$500,000 to \$1 million 5. \$1 million to \$2 million 6. \$2 million to \$5 million 7. \$5 million to \$10 million 8. \$10 million or greater

SECRET LIBRARY

10. Profile of Firm's Project Experience, Last 5 Years

Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)
1) 032	1		11)			21)		
2) 048	20		12)			22)		
3) 057	2		13)			23)		
4) 201	3		14)			24)		
5) 202	3		15)			25)		
6) 017	3		16)			26)		
7) 072	4		17)			27)		
8) 084	1		18)			28)		
9)			19)			29)		
10)			20)			30)		

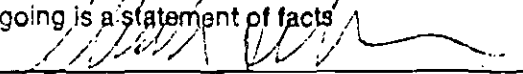
11. Project Examples, Last 5 Years

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (in thousands)	Completion Date (Actual or Estimated)
017	IE	<sup>1</sup> O'Hare Hilton Hotel O'Hare Airport Chicago, Illinois	Hilton Hotels 9880 Wilshire Blvd. Beverly Hills, Ca.	18,000	1973
084	IE	<sup>2</sup> Cook County Juvenile Detention Center Chicago, Illinois	Public Building Commission 1100 S. Hamilton Street Chicago, Illinois	38,000	1973
048	IE	<sup>3</sup> Kaiser Foundation Hospital San Francisco, Ca. (New Emergency Power)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	500	1974
048	IE	<sup>4</sup> Kaiser Foundation Hospital Redwood City, Ca. (Remodel X-Ray Suite)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	700	1975
048	IE	<sup>5</sup> Kaiser Foundation Hospital San Francisco, Ca. (New Power Distribution System)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	500	NOT BUILT
202	IE,C	<sup>6</sup> Loran C. Coast Guard Station Fallon, Nevada	12th Coast Guard Station 630 Sansome Street San Francisco, Ca.	300 (Electrical)	1976
202	IE,C	<sup>7</sup> Loran C. Coast Guard Station Searchlight, Nevada	12th Coast Guard Station 630 Sansome Street San Francisco, Ca.	300 (Electrical)	1976

202	IE	<sup>8</sup> Loran C. Coast Guard Station Middletown, Ca.	12th Coast Guard Station 630 Sansome Street San Francisco, Ca.	300	1976
048	P	<sup>9</sup> Kaiser Foundation Hospital San Francisco, Ca. (Electrical Safety Study)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	18	1976
048	C	<sup>10</sup> Kaiser Foundation Hospital San Francisco, Ca. (Electrical Safety)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	100	1978
048	P	<sup>11</sup> Kaiser Foundation Hospital Richmond, Ca. (Electrical Safety Study)	Kaiser Facilities Planning 1940 Webster Oakland, Ca.	250	1979
048	P	<sup>12</sup> Kaiser Foundation Hospital Richmond, Ca. (Electrical Safety Renovation and Engineering Power)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	200	1980
048	C	<sup>13</sup> Kaiser Foundation Hospital San Francisco, Ca. (Remodel Dietary)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	1,000	1978
048	C	<sup>14</sup> Veterans Administration Hospital Palo Alto, Ca. (Addition of two elevators Bodg. #1)	Veterans Administration Palo Alto, Ca.	1,300	1982
048	P	<sup>15</sup> Veterans Administration Hospital Palo Alto, Ca. (Emergency Power System)	Veterans Administration Hospital Palo Alto, Ca.	1,200	1983
048	P	<sup>16</sup> Veterans Administration Hospital San Francisco, Ca. (Remodel Surgery Isolated Power)	Veterans Administration Hospital	200	1978
048	IE	<sup>17</sup> Veterans Administration Hospital Livermore, Ca. (Surgery Isolated Power)	Veterans Administration Hospital Livermore, Ca.	70	1976
017	C	<sup>18</sup> Gift Center at Showplace Square. San Francisco, Ca.	Pacific Union San Francisco, Ca.	7,500	1982
048	C	<sup>19</sup> 9 Small Projects VAMC Martinez	Veterans Administration Hospital Martinez	500	1981

048	C	20	Research Building VAMC Martinez	Veterans Administration Hospital Martinez, Ca.	400	1981
048	C	21	Ambulatory Care Remodel VAMC Martinez	Veterans Administration Hospital Martinez, Ca.	1,500	1982
048	C	22	Radiation Therapy Remodel VAMC Martinez	Veterans Administration Hospital Martinez, Ca.	1,000	1982
048	C	23	Dental Clinic Renovation VAMC Martinez	Veterans Administration Hospital Martinez, Ca.		1981
	C	24	VAMC District 27 CD54 Form Analysis	VA Central Office Washington DC		1982
048	C	25	Childrens Hospital Central Supply Remodel Electrical Systems Survey	Childrens Hospital Oakland, Ca.	150	1983
048	C	26	Mt. Diablo Hospital (8 Separate Renovation Projects)	Mt. Diablo Hospital Medical Center 2540 East Street Concord, Ca.	1,000	1983-4
048	C	27	Kaiser Foundation Hospital San Francisco, Ca. (Cardiovascular Surgery:ICU/CCU & OB-GYN)	Kaiser Facilities Planning 1940 Webster Street Oakland, Ca.	3,300	1983
072	C	28	Tishman Office Center Walnut Creek, Ca.	Tishman West Management Corp. 10960 Wilshire Blvd.	50,000	1984
049 061 017	C	29	Tabor Center Denver, Co. (lighting Consultant)	Williams Realty Corp. One Williams Center Tulsa, Ok.	165,000	1985
	C	30	St. Joseph/Park Hill Condominiums San Francisco, Ca.	Park Hill Associates San Francisco, Ca.	13,000	1984

12. The foregoing is a statement of facts

Signature: 

Typed Name and Title:

Charles Silverman, President

Date:

October 29, 1982

# RESUMES

### III. QUALIFICATIONS OF PROPOSED STAFF

Our key project staff are individuals with expertise and experience in creative and sensibly-innovative design work. They are top level professionals; senior staff and principals who are experienced in projects of this scope and who are able to command and effectively use the resources of their respective firms to the fullest extent.

#### A. KEY STAFF DESIGNATIONS

To demonstrate the importance of this assignment to the member firms of our project team, the following principals and senior professionals are designated as key project staff. Through this designation, they will be assigned based on the following commitments:

- Key staff will be assigned on a priority basis to the Continuing Preliminary Engineering Work on the Metro Rail Project, both for the subject contract and for any subsequent phases.
- No changes will be made in key staff assignments without prior approval of the GAEC.
- The time commitments shown below cover the 12-month period of the subject contract. As required during critical periods of the work effort, our project team firms will commit these key staff up to 100 percent of their available time.

<u>Key Staff</u>	<u>Project Assignment</u>	<u>Time Commitment</u>
Sharp Engineering (SE):		
Sharad J. Pandya	Project Manager	60 percent
Kirit N. Shah	Management/Technical Review Board	20
Mahendra K. Dave	Tunnels	50
Charles B. Lusk	Constructibility Analysis and Cost Estimates	50

<u>Key Staff</u>	<u>Project Assignment</u>	<u>Time Commitment</u>
RKI International (RKI):		
Key S. Kwak	Principal-In-Charge	25
Donald B. Rush	Management/Technical Review Board	15
Yogesh C. Mehti	Project Structural Engineer	50
Wimberly, Whisenand, Allison, Tong & Goo (WWAT&G):		
Gerald Allison	Deputy Project Manager	50
Donald Fairweather	Management/Technical Review Board	15
Ronald J. Holecek	Project Architect	50
Creegan & D'Angelo (CDA):		
Thomas A. Mason	Management/Technical Review Board	15
George C. Heeg	Project Civil Engineer	50
Charles & Braun (CB):		
Richard A. Charles	Management/Technical Review Board	15
Robert H. Braun	Project Mechanical Engineer	40
Silverman & Light (SL):		
Charles Silverman	Management/Technical Review Board	15
Carol Light	Project Electrical Engineer	50

#### B. STAFF QUALIFICATIONS

The qualifications of our project staff are summarized below. Their technical qualifications are presented in the left column, and their relevant experience in the right column.

Project Management Staff:

KEY S. KWAK

Principal-In-Charge

- Principal, RKI International
- BS, Architectural Engineering
- Registered Professional and/or Structural Engineer  
(CA, OR, CO, KS)
- 23 years experience in the planning, design, construction, and overall project management of high-rise structures, commercial and industrial facilities, and wastewater treatment facilities
- Related transportation and commercial facilities experience:
  - 1000-car Parking Garage, Topeka KS
  - Anza Parking Garage, Burlingame, CA
  - 20 Bridges on US-69, KS
  - 20 Bridges on I-70, KS
  - 6-mile Viaduct on Urban I-35W, Wichita, KS
  - 15 Bridges on I-35W, KS
  - 16 Bridges on US-50, KS
  - Deer Park Center, Santa Cruz, CA
  - Montgomery Ward Retail Center, Topeka, KS
  - Market Place Shopping Mall, Topeka, KS
  - Holiday Inn, San Jose, CA

SHARAD J. PANDYA

Project Manager

- President, Sharp Engineering
- MS, Civil Engineering  
BS, Civil Engineering
- Registered Structural Engineer  
(CA, OR)  
Registered Civil Engineer  
(CA, OR, WA)
- 20 years experience in the design, construction management, and
- Rapid transit experience:
  - Humboldt Hospital Subway Station, Buffalo, NY
  - BART KE Line, Oakland Embarcadero Subway Station, San Francisco
  - BART Subway Stations and Line Structures, Oakland
  - Conceptual Design of BART Subway Stations, San Francisco
  - Judiciary Square Subway Station, Washington, DC



inspection of rapid transit facilities, subways, bridges, roads, parking structures, utilities, and major commercial and industrial buildings.

- Related experience:
  - 5 major freeway interchanges, CA and NY
  - ERDA Fuels and Materials Examination Facility, Hanford, WA
  - High Bay Industrial Facility, Arnold Supersonic Test Facility, TN
  - Rigging Shop, Mare Island Naval Shipyard, CA

GERALD ALLISON  
Deputy Project Manager

- Principal, WWT&G
- B. Arch., Architecture
- Registered Architect  
(CA, HI, WA, FL)

- Project designer, art and interior coordinator for many WWAT&G projects throughout the continental U.S., Hawaii, Oceania, and in the Orient. His strong creative capacity has resulted in numerous domestic and international awards for WWAT&G. Mr. Allison has been in responsible charge of WWAT&G's mass transit design assignments in Florida, Hawaii, and Singapore.

DONALD B. RUSH  
Management/Technical Review Board

- Principal, RKI International
- BS, Civil Engineering
- Registered Structural and/or Professional Engineer  
(CA, OR, WA)
- 27 years experience in the planning, design, and project management of high-rise structures, com-

- Related experience:
  - Bullock's Stonestown Parking Garage, San Francisco, CA
  - Main Street Parking Garage, San Francisco, CA
  - Main Street Parking Garage, San Mateo, CA
  - Yakima Mall, Yakima, WA
  - Terminal Building, Travis AFB, CA
  - IBM Office Building, San Jose, CA

mercial and industrial facilities,  
schools, and parking structures

General Electric Company-Nuclear  
Energy Division, San Jose, CA  
Syntex Research Facility, Palo  
Alto, CA  
Advanced Memory Systems Industrial  
Facility, San Jose, CA  
Rucker Control Systems Plant, San  
Jose, CA

KIRIT N. SHAH

Management/Technical Review Board

- Senior Associate, Sharp Engineering
- MS, Structural Engineering  
BS, Civil Engineering
- Registered Structural Engineer (CA)  
Registered Civil Engineer (CA)  
Registered Professional Engineer  
(PA, GA)
- 19 years experience in the manage-  
ment of rapid transit facilities,  
commercial and industrial build-  
ings, mining, and refineries
- Rapid transit experience:  
Dupont Circle Subway Station,  
Washington, DC  
Design Review of 11 Subway  
Stations, Pittsburgh, PA  
Dade County Rapid Transit System  
Design Criteria, FL  
Civic Center & Powell Street  
Subway Stations Preliminary  
Design, San Francisco, CA  
Design Review of MBTA Line  
Segments, Boston, MA  
Baltimore Rapid Transit System  
Phase I Services, MD  
Project Management Procedures for  
Houston Transit Consultants, TX
- Related experience:  
Dade County Rapid Transit  
Maintenance Facilities, FL  
Avondale Maintenance Shops  
(MARTA), Atlanta, GA  
Rapid Transit Maintenance  
Facilities Design Review,  
Pittsburgh, PA  
BART Maintenance Yards Expansion,  
Richmond, CA  
Hegenberger Overpass (BART),

Oakland, CA  
Railroad Relocation, Lafayette, IN

DONALD F. FAIRWEATHER  
Management/Technical Review Board

- Principal, WWAT&G
- B. Arch., Architecture
- Registered Architect (CA, HI)  
Construction Specifications  
Institute

- A Frank Lloyd Wright fellow with extensive experience throughout California, Oregon, and Hawaii. In design and administrative direction, his expertise covers hotels, condominiums, theaters, conference facilities, shopping centers, and other public facilities. His accomplishments include complete management -- design through construction -- of the Hawaii State Capitol. Currently, Mr. Fairweather manages the WWAT&G Newport Beach office.

THOMAS A. MASON  
Management/Technical Review Board

- Project Manager & Senior Civil Engineer, Creegan & D'Angelo
- BSCE, Civil Engineering
- Registered Civil Engineer (CA)

- Specialization in project planning, design, and construction administration for land development, industrial and commercial facilities, and water resources/drainage projects. Former Traffic Engineer for Los Gatos, Capitola, and Scotts Valley.

RICHARD A. CHARLES  
Management/Technical Review Board

- President, Charles & Braun

- 28 years experience in the evaluation and design of mechanical equipment, HVAC, plumbing, and energy conservation measures for commercial facilities, high-rise

commercial facilities, high-rise buildings, public buildings, and laboratory facilities.

CHARLES SILVERMAN

Management/Technical Review Board

- Partner, Silverman & Light, Inc.
- BS, BioMedical Engineering
- Registered Electrical Engineer (CA)  
Registered Control Systems  
Engineer (CA)  
Registered Professional Engineer  
(OK, FL)
- 13 years experience in electrical and control systems engineering for commercial, institutional, and industrial buildings. Past assignments include: O'Hare Hilton Hotel in Chicago, Cook County Juvenile Detention Center, and J. Edgar Hoover Building - FBI Headquarters.

Project Design Staff:

RONALD J. HOLECEK

Project Architect

- Principal, WWAT&G
- M. Arch., Architecture  
B. Arch., Architecture
- Registered Architect (CA, HI)
- Specialist in architectural computer applications
- 11 years experience in architectural teaching, design, and administration. He has been in responsible charge of both domestic and foreign projects, including the AIA award-winning Hyatt Regency Waikiki and Hyatt Regency Maui Hotel.

YOGESH MEHTA

Project Structural Engineer

- Senior Structural Engineer, RKI International
- MS, Structural Engineering  
BS, Civil Engineering
- Related experience:  
SFO International Airport North Terminal, San Francisco, CA  
SFO International Airport Central Terminal Renovation, San

- Registered Structural Engineer (CA)  
Registered Civil Engineer (CA)
- 18 years experience in the design of high-rise structures, commercial and industrial facilities, parking garages, and shopping centers.
- Experienced in the development and use of computer programs for static and dynamic analysis of structures.

GEORGE C. HEEG  
Project Civil Engineer

- Senior Civil Engineer, Creegan & D'Angelo
- MS, Public Works Administration  
BS, Civil Engineering
- Registered Civil Engineer (CA)

ROBERT H. BRAUN  
Project Mechanical Engineer

- Vice President, Charles & Braun
- BS, Mechanical Engineering
- Registered Mechanical Engineer (CA)

Francisco, CA  
IBM Center, San Jose, CA  
Transamerica Pyramid, San Francisco, CA  
One Market Plaza, San Francisco, CA  
MGM Hotel, Las Vegas, NV  
MGM Hotel, Reno, NV  
Kaiser Research Center, Pleasanton, CA  
Sylvania Electric Co. Facilities, Milpitas, CA  
General Motors Assembly Plant Addition, Fremont, CA  
Ford Motor Assembly Plant Addition, Milpitas, CA

- Broad experience in hydraulics, hydrology, and design of civil works for land developments, industrial and commercial facilities, and water resources and drainage projects. Mr. Heeg's recent experience includes preliminary civil designs for the San Jose Transit Mall and Guadalupe Corridor light rail projects.

- 34 years of experience in the design, operation, and analysis of mechanical and plumbing systems for commercial and industrial buildings, HVAC, plumbing, and industrial piping.

CAROL LIGHT

Project Electrical Engineer

- Partner, Silverman & Light
- BS, Architecture
- Registered Electrical Engineer (CA)
- 10 years experience in the design of electrical systems and lighting for commercial, industrial, and institutional buildings. Past assignments include: Lighting and control tower for Riyadh International Airport, Santa Cruz Detention Facility, World Trade Club at the San Francisco Ferry Building, Kaiser Foundation Hospital in Richmond, Union City Civic Center, and Tishman Office Complex.

CHARLES B. LUSK

Constructibility Analysis & Cost Estimates

- Associate, Sharp Engineering
- Degree of Engineer, Hydraulics  
BA, Civil Engineering
- Over 30 years experience in the planning, design, cost estimating, and construction management of domestic and foreign projects. Past experience includes tunnels, railroads, bridges, roads, airports, ports, urban developments, power plants, pipelines, dams, and refineries. The accuracy of his cost estimates is demonstrated by a recent 168,000 s.f. industrial facility for the U.S. Navy, whose low bid was within 0.5 percent of the engineering estimate.

MAHENDRA K. DAVE

Tunnel Engineering

- Associate, Sharp Engineering
- 23 years experience in the design and construction management of

- MS, Civil Engineering
- BS, Civil Engineering

and construction management of tunnels, industrial facilities, and ports. Experienced in tunneling works located in soft and hard rock for such developments as the Vaitarna Hydro Project (3 tunnels and underground powerhouse), Borvatenna Irrigation & Power Project (2 major tunnels), Great Ruaha Power Project, Yuba River Project, and Mocogoro Water Supply Project.

**PROJECT ORGANIZATION  
& MANAGEMENT PLAN**



#### IV. PROJECT ORGANIZATION AND MANAGEMENT PLAN

Our organization is based on a project team of highly qualified small business firms with extensive participation by MBE and WBE firms. Our firms are comfortable with this form of organization. We have all worked before in organizations of this type, and have used it to great success on a variety of projects.

The key to making such an organization work effectively is the management concepts described below. These have been developed and tested on previous associations formed on a project basis.

In effect, these concepts are designed to enable our project staff to relate and communicate as though they are a single organization for this assignment. Continuity is provided by a core management team and core design team who will follow the project through this and subsequent phases. Functional specialists, technical staff, and production staff will be brought on board from the member firms only as their skills are needed. This organization avoids the burden and inefficiencies of a static project organization. These procedures ensure that the organization remains flexible and responsive to the day-to-day demands of the project. While loosely structured to ensure optimum creativity, this organization is maintained through an emphasis on communication to provide coherence and control.

##### A. MANAGEMENT PLAN

###### Project Management:

A core management team will be formed consisting of the Principal-In-Charge, Project Manager, Deputy Project Manager, and a Management/Technical Review Board. A core design team will be formed consisting of the Project Manager, Deputy Project Manager, and Project Architect/Engineers. Both teams will be assigned to this project for the subject contract and for any subsequent phases.

The Principal In Charge will be responsible for setting management procedures and ensuring that the project team fulfills its contractual obligations on schedule and on budget. His responsibilities will include:

- general management oversight of the project team
- contract negotiations, and liaison with the GAEC on all contractual matters
- contract administration
- arranging for the allocation of project team staff and other resources as required by the Project Manager
- coordination of the Management/Technical Review Board.

The Project Manager is the key to maintaining communications between the various firms, among the many disciplines, and with the GAEC. With assistance as required from the Deputy Project Manager, his responsibilities will include:

- project administration
- scheduling of all work tasks
- tracking of all work tasks
- cost control
- quality review
- preparation of periodic progress reports to the GAEC
- liaison with the GAEC
- coordination of the associated firms and subcontractors.

In order to adequately track all work tasks, the Project Manager will develop a CPM chart at the beginning of the contract period. This chart will be reviewed and approved both by the Management/Technical Review Board and by the GAEC.

The Project Manager also will function as an engineering manager, coordinating efforts of all disciplines during the preliminary design stages. It is expected that as the project grows and develops into final design stages, an Engineering Manager position reporting to the Project Manager will be created.

The Management/Technical Review Board will be responsible for:

- establishment and review of management policies
- establishment of policy for design standards, production, and practices

- assignment of personnel as required to complete all work on schedule.

Project Staff:

The Project Architect/Engineers will be responsible for:

- preliminary design of project facilities
- coordination of all disciplines under their respective assignments
- establishment of design parameters
- quality review.

Functional specialists, professionals, and production staff will be assigned to the project as they are needed. This arrangement will enable our Project Team to draw on the most talented and innovative personnel available from our firms while maintaining all work on schedule, within budget, and with a high degree of flexibility to accommodate project requirements as they are adjusted.

Project Liaison:

All communication with the GAEC will be through our Project Manager. At appropriate times and with approval of the GAEC, project architect/engineers and project staff will communicate directly with their counterparts at the GAEC and other contractors for technical questions, site information, and for system coordination purposes.

All technical and project management meetings, telephone conversations, and site visits will be documented in appropriate memorandum. These memorandum along with copies of all project correspondence, project documents, and administrative/financial records will be maintained in a chronological central file located at WWAT&G's offices in Newport Beach. Distribution of these materials will be made from this office to a standard list of project staff. An annotated record of the file contents will be maintained and made available to the GAEC as desired.

Quality Review:

Periodic quality reviews will be held by the Management/Technical Review Board meeting with the Project Manager, Deputy Project Manager, and Project Architect/Engineers. All submissions to the GAEC will first be reviewed for approval by this committee.

### Cost/Schedule Control:

We intend to maintain close, continuous contact with the GAEC to monitor and discuss our progress and mutually arrive at any required modifications to the schedule that is adopted. In this respect, we wish to emphasize our desire to maintain a certain degree of flexibility within the time and budget constraints of the project.

All tracking of project costs and progress on the work schedule will be performed by the Project Manager and summarized in monthly reports to the GAEC and to the Management/Technical Review Board. The Management/Technical Review Board will meet monthly with the Project Manager and Project Architect/Engineers to review these reports and budget additional personnel and staff resources as required to keep the project on schedule and resolve any problems affecting progress of the work effort.

### Project Offices:

A central project office will be maintained at WWAT&G's offices in Newport Beach. For the duration of the contract, the Project Manager will spend approximately 25 percent of his time at this location.

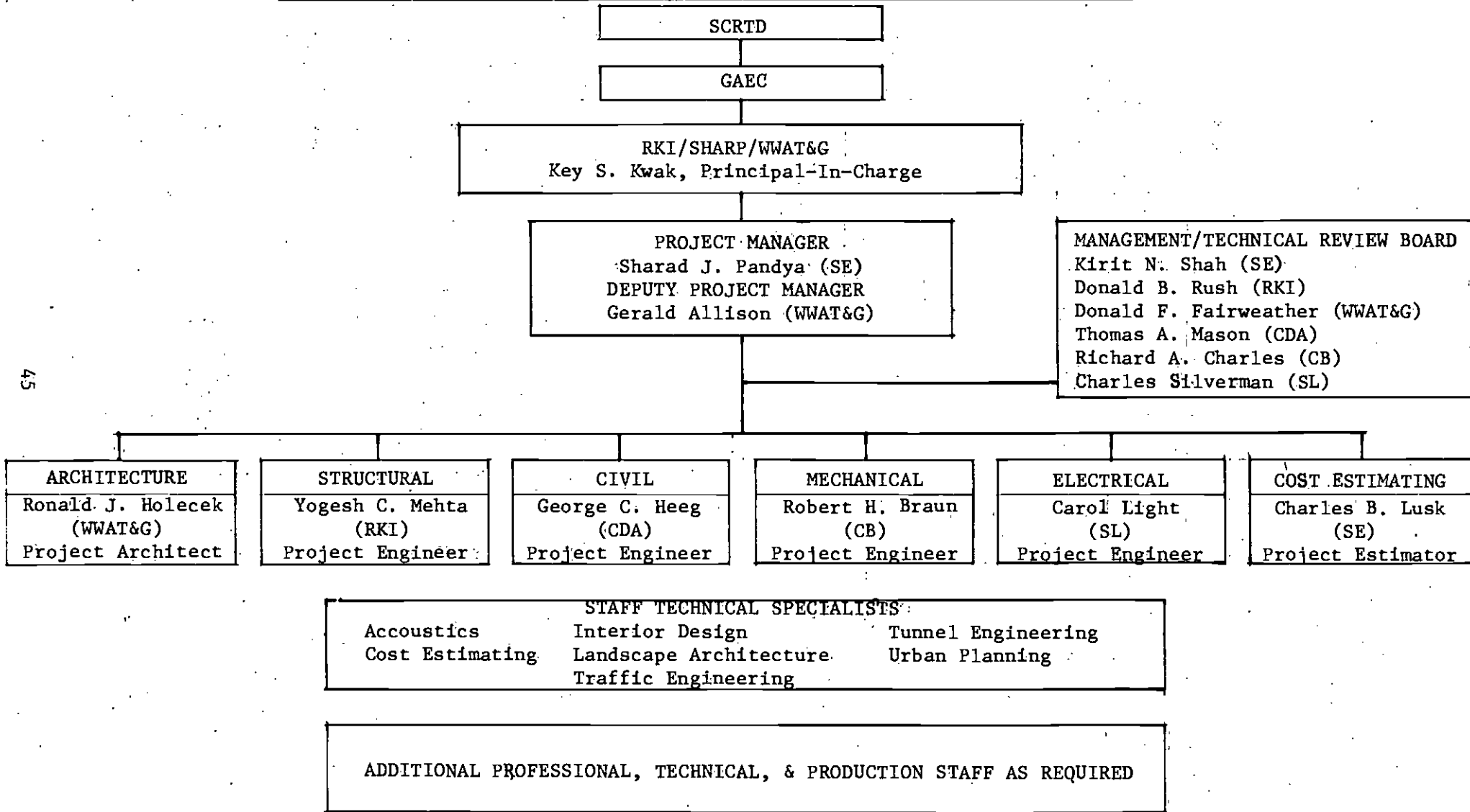
Each of the disciplines will perform their assignments at the offices of their respective firms. With the exception of the WWAT&G offices in Newport Beach, the member firms are located in the San Francisco Bay Area.

Coordination among the disciplines will be maintained through use of a peg-board system for all project drawings. Early in the project schedule, a base map of the project site will be developed along with architectural alternatives. Each discipline then will develop their designs on a series of overlays, which will be checked for consistency by the Quality Review Committee.

### B. ORGANIZATION CHART

The following organization chart illustrates our proposed organization, and shows the key personnel and their functions. The proposed work location of each is discussed above in the Management Plan.

# PROJECT ORGANIZATION CHART



RKI -- RKI International

CDA -- Creegan and D'Angelo.

SE -- Sharp Engineering

CB -- Charles & Braun, Consulting Engineers

WWAT&G -- Wimberly, Whisenand, Allison, Tong & Goo

SL -- Silverman & Light, Inc.

# PREFERENCE LIST

V. EXPRESSION OF PRIORITY INTEREST

CONTRACT PREFERENCE LIST

<u>PHASE I</u>	<u>CONTRACT</u>	<u>Phase I Numerical Preference</u>
A-140	Tunnel segment between Union Station & 7th/Flower Station, including Civic Center & 5th /Hill Stations	4
A-165	7th/Flower Station	2
A-170	Tunnel segment from 7th/Flower to Wilshire/Vermont, including the Station at Wilshire/Alvarado	3
A-195	Wilshire/Vermont Station	1
<u>PHASE II</u>	<u>CONTRACT</u>	<u>Phase II Numerical Preference</u>
A-220	Tunnel segment between Wilshire/Vermont & Wilshire/LaBrea, including the Wilshire/Normandie & Wilshire/Western Stations.	6
A-245	Wilshire/LaBrea Station and Pocket Track	1
A-250	Tunnel segment from Wilshire/LaBrea to Fairfax/Beverly, including the Wilshire/Fairfax Station	8
A-275	Fairfax/Beverly Station	2
A-310	Tunnel segment from Fairfax/Beverly to Hollywood/Cahuenga, including the Fairfax/Santa Monica & LaBrea/Sunset Stations	7
A-350	Hollywood/Cahuenga Station and Pocket Track	3
A-410	Tunnel segment from Hollywood/Cahuenga to Universal City Station	10
A-425	Universal City Station	4
A-430	Tunnel segment between Universal City Station & North Hollywood Station	9
A-445	North Hollywood Station & End Line Storage Track	5

NOTE: Contract A-100, Central Yards and Shops is to be awarded to DMJM/PBQ&D and Contract A-135, Union Station is to be awarded to Harry Weese & Associates.

**MBE/WBE DATA**



VI. MBE/WBE COMMITMENT DATA

Our proposed project team is based on a strong commitment to the MBE and WBE utilization goals. As the prime contractor, our association of RKI/Sharp/WWAT&G includes two MBEs. Additional MBE/WBE participation is provided through subcontractors.

<u>Firm</u>	Type of <u>Firm</u>	<u>Area of Work</u>	<u>Estimated % of Contract</u>
RKI International	MBE	Project Management Structural Engineering Management/Technical Review	20
Sharp Engineering	MBE	Project Management Structural Engineering Management/Technical Review	20
Silverman & Light	WBE	Electrical Engineering	5
TOTAL MBE/WBE COMMITMENT			45

Resumes for the key staff that will be assigned from these firms are included in Section III.