

2024 N. King Street
Suite 200
Honolulu, Hawaii 96819-3494
Telephone 808 842 1133
Fax 808 842 1937
eMail: rmtowill@rmtowill.com



R.M. TOWILL CORPORATION
SINCE 1930

Planning
Engineering
Environmental Services
Photogrammetry
Surveying
Construction Management

June 29, 2023

Mr. Robert Ewbank
Director of Information Technology
County of Hawai'i
25 Aupuni Street
Hilo, Hawai'i 96720

**DS.1) Computer Engineering (GIS
Mapping/Programming Services)**

Dear Mr. Uehara,

Professional Services during the Fiscal Year 2023-2024, beginning July 1, 2023

The R. M. Towill Corporation (RMTC) is pleased to submit our qualifications in response to the County of Hawai'i's internet announcement on June 1, 2023. The firm is interested in providing professional services in the following area:

DS.1) Computer Engineering (GIS Mapping / Programming Services)

The other requested information is presented below:

1. The name of the firm or person, the principal place of business, and location of all of its offices:

R. M. Towill Corporation

Main Office: 2024 North King Street, Suite 200
Honolulu, Hawai'i 96819-3494
Kailua-Kona Office: 73-5574 Maiiau Street, Suite 11
Kailua-Kona, Hawai'i 96740

2. The age of the firm and its average number of employees over the past five years:

The R. M. Towill Corporation has been in business in Hawai'i for 93 years. The average number of employees over the past five years was 115.

3. Education, training and qualifications of the firm and its key employees:

Please see Tabs 1, 2, and 3 of the attached DPW Form 120 (Rev. 6/99) form.

4. A list of recent projects and the names of up to five clients who may be contacted, including at least two for whom services were rendered during the preceding year:

Michael Wong, U.S. Army Corps of Engineers, Honolulu District, (808) 835-4101

Project: South Kona Flood Study, Hawai'i

RMTC Services Performed: Civil Engineering; Geographic Information Systems Mapping

Most Recent Year in which Services were Provided: 2012

Randall Wakumoto, City and County of Honolulu, Department of Facility Maintenance, Storm Water Quality Branch, (808) 768-3242

Project: NPDES Storm Water City System Inspection and Assessment, O'ahu

RMTC Services Performed: Geographic Information Systems Mapping

Most Recent Year in which Services were Provided: 2023 (Ongoing)

Lynette Kawaoka, State of Hawaii, Department of Transportation, Airports Division, (808) 838-8818

Project: Kahului Airport Master Plan Update, Maui

RMTC Services Performed: Geographic Information Systems Mapping; Planning

Most Recent Year in which Services were Provided: 2020

Dr. Karl Kim, National Disaster Preparedness Training Center, University of Hawaii, (808) 956-6865

Projects: Hawai'i Disaster Recovery Assistance Workgroup (HI-DRAW), O'ahu

RMTC Services Performed: Geographic Information Systems Mapping; Planning

Most Recent Year in which Services were Provided: 2023 (Ongoing)

5. Any Promotional or Descriptive Literature:

RMTC recently hired **Mr. Benton Ching** as GIS and Geospatial Coordinator. Mr. Ching has over 42 years of experience with federal, state, and local government agencies, as well as special interest groups. He established and led the GIS program for the U.S. Army Corps of Engineers (USACE), Honolulu District. He also conducted international GIS projects in Sri Lanka, Maldives, and Okinawa, Hiroshima, and Kanto region of Japan. Mr. Ching is proficient in ArcGIS, MicroStation, Agisoft, ERDAS Imagine, Database Software, and LIDAR.

While at USACE, Honolulu District, Technical Integration Branch, Mr. Ching developed a GIS program to provide GIS, GPS, LIDAR, surveying, imagery, and other geospatial support to the Honolulu District. The program was project driven and all GIS staff were paid with project funds. During his tenure in this program, Mr. Ching authored ISO 9000 (Quality Management Standards) documentation and developed scopes of work for contracts involving geospatial works and provide quality assurance for those projects.

Mr. Ching was the agency winner for *2016 Federal Engineer of the Year Award* for efforts on international projects and the State of Hawaii, Department of Transportation

Mr. Robert Ewbank
Director of Information Technology
June 29, 2023
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(HDOT), Harbors Division GIS Program implementation. This effort included assisting HDOT with complying with the U.S. Environmental Protection Agency's (USEPA) consent decree for storm water violations. The implementation of the GIS program prevented the assessment of monetary fines on the State and provided a sound solution to managing the storm water program and protecting Hawaii's valuable water sources.

Since joining RMTC last year, Mr. Ching has been digitizing RMTC's aerial photo collection (over 150,000 photos) and georeferencing them to be used in GIS and with Google Earth and similar mapping programs. These films are one of a kind and show the history of Hawaii and the Pacific. He is utilizing a Werhli RM-6 photogrammetric scanner to digitize aerial photograph negatives from film spools; Scanmaster software to adjust the histograms and color levels of the photographs; and an Epson 11000XL flatbed scanner to digitize single sheet positives and negatives. Agisoft photogrammetric software is used to orthomosaic series of overlapping digital photos. The orthomosaics are then georeferenced using ArcGIS Pro. These products are used by GIS professionals, archaeologists, planners, and engineers. Georeferenced photos are exported to KML files which allows non-GIS clients to use them with Google Earth and other software programs.

Please see the attached DPW Form 120 (Rev. 6/99), Tab 10, "Statement of Qualifications," for more on our GIS staff and promotional information.

Thank you for the opportunity to submit our firm's professional qualifications. If you have questions or need additional information, please email me at GregH@rmtowill.com or call me at (808) 842-1133.

Very truly yours,



Greg H. Hiyakumoto, P.E.
President

GHH:as

Attachments



Statement of Qualifications

Professional Services During the Fiscal Year 2023-2024
Beginning July 1, 2023

County of Hawaii
Department of Information Technology



R. M. TOWILL CORPORATION

Planning
Civil Engineering
Wastewater Engineering
Surveying & Mapping
Project Management
Construction Management

Honolulu Office
2024 N. King Street
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F: 808.329.4495
email: rmtowill@rmtowill.com

www.rmtowill.com

DPW Form 120 (Rev. 6/99)

DS.1) Computer Engineering
(GIS Mapping/Programming Services)

STATE OF HAWAII

DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES

QUESTIONNAIRE FOR ARCHITECTS, ENGINEERS AND OTHER PROFESSIONAL SERVICES

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STATE OF HAWAII

DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES

QUESTIONNAIRE FOR ARCHITECTS, ENGINEERS AND OTHER PROFESSIONAL SERVICES

QUESTIONNAIRE FOR: (LIST DISCIPLINE) DS.1) COMPUTER ENGINEERING (GIS Mapping / Programming Services)	OTHER QUESTIONNAIRES SUBMITTED: (LIST DISCIPLINES) None	DATE June 29, 2023
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FIRM NAME R. M. TOWILL CORPORATION	ESTABLISHED YEAR STATE 1930 HI	TYPE OF ORGANIZATION (Underline) INDIVIDUAL PARTNERSHIPS <u>CORPORATION</u> JOINT VENTURE OTHER
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BUSINESS ADDRESS, TELEPHONE & FAX NO. OF HAWAII OFFICE 2024 North King Street, Suite 200 Telephone: (808) 842-1133 Honolulu, Hawaii 96819-3494 Fax: (808) 842-1937 www.rmtowill.com Email: rmtowill@rmtowill.com	AGE OF FIRM 93	FEDERAL ID NO. 99-0144094 (TIN) GE 056-705-4336-01 (State ID)	YEARS ESTABLISHED IN HAWAII 93
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PRINCIPALS OF FIRM: (NAMES) President Greg H. Hiyakumoto, PE, LEED AP, ENV SP Vice President James Yamamoto, PE Vice President Collins Lam, PE Vice President David Tanoue, Esq.	Vice President Craig Luke, PE Vice President Kyle Yukumoto, PE Treasurer Robert Spencer Secretary Michael Inouye	ASSOCIATE MEMBERS OF FIRM: (NAMES) None
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PRESENT BRANCH OFFICE(S) (ADDRESS, TELEPHONE & FAX NO.) KAILUA-KONA Kalepa Business Center 73-5574 Maiiau St., Suite #11 Kailua-Kona, Hawaii 96740 Telephone: (808) 329-4494 Fax: (808) 329-4495	PERSON IN CHARGE: (NAMES) Greg H. Hiyakumoto, PE, LEED AP, ENV SP President (Main Office)
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NUMBER OF PERSONNEL IN YOUR PRESENT ORGANIZATION

LOCATED AT	PRINCIPALS & KEY PERSONNEL			OTHER PERSONNEL											TOTAL
	Architect	Engineer	Others	Architect	Engineers				Draftsmen	Spec. Writer	Estimator	Inspector	Surveyor	Balance**	
					Mechanical	Electric	Civil	Others*							
HOME OFFICE	0	5	3	1	0	0	35	8	3	1	1	9	15	41	122
BRANCH OFFICES	0	0	0	0	0	0	1	0	0	0	0	0	1	1	3
TOTAL	0	5	3	1	0	0	36	8	3	1	1	9	16	42	125

TECHNICAL PERSONNEL: 90	NO. OF PERSONNEL WITH HAWAII LICENSES: 45	NO. OF TECHNICAL PERSONNEL WITHOUT HAWAII LICENSES: 45
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* Others: Resident Managers / Construction Engineers

** Balance includes planners, photogrammetrists, junior engineers (unlicensed), interns, and administrative personnel.

PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES WITHIN YOUR FIRM

<p>NAME HIYAKUMOTO, GREG H.</p>				<p>RESIDENT OF Hawaii, USA</p>				<p>NAME YAMAMOTO, JAMES H.</p>				<p>RESIDENT OF Hawaii, USA</p>			
<p>TITLE President</p>								<p>TITLE Vice President and Senior Project Manager</p>							
<p>YEARS OF EXPERIENCE 38</p>		<p>AS PRINCIPAL IN THIS FIRM 20</p>		<p>AS PRINCIPAL IN OTHER FIRMS 0</p>		<p>OTHER THAN PRINCIPAL 18</p>		<p>YEARS OF EXPERIENCE 44</p>		<p>AS PRINCIPAL IN THIS FIRM 22</p>		<p>AS PRINCIPAL IN OTHER FIRMS 0</p>		<p>OTHER THAN PRINCIPAL 22</p>	
<p>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 1991, Structural Engineering University of Hawaii at Manoa - B.S., 1984, Civil Engineering</p>								<p>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) California Institute of Technology - M.S., 1979, Civil Engineering California Institute of Technology - B.S., 1978, Engineering and Applied Science Whitman College - B.A., 1976, Mathematics and Physics</p>							
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers American Society of Dam Safety Officials Institute of Transportation Engineers American Public Works Association Chi Epsilon, Sigma Xi</p>								<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers American Water Works Association</p>							
<p>REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1991 Guam (CE 856); 1989 Hawaii (PE-6662) Envision™ Sustainability Professional Credential ENV SP - 2015 LEED AP - 2009</p>								<p>REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1983 Hawaii (PE-5491)</p>							
<p>NAME LAM, COLLINS D.</p>				<p>RESIDENT OF Hawaii, USA</p>				<p>NAME TANOUE, DAVID K.</p>				<p>RESIDENT OF Hawaii, USA</p>			
<p>TITLE Vice President and Manager, Civil Engineering Department</p>								<p>TITLE Vice President and Manager, Surveying and Planning Departments</p>							
<p>YEARS OF EXPERIENCE 28</p>		<p>AS PRINCIPAL IN THIS FIRM 11</p>		<p>AS PRINCIPAL IN OTHER FIRMS 0</p>		<p>OTHER THAN PRINCIPAL 17</p>		<p>YEARS OF EXPERIENCE 33</p>		<p>AS PRINCIPAL IN THIS FIRM 11</p>		<p>AS PRINCIPAL IN OTHER FIRMS 0</p>		<p>OTHER THAN PRINCIPAL 22</p>	
<p>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 1997, Civil Engineering Louisiana State University - B.S., 1994, Civil Engineering</p>								<p>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - J.D., 1990 University of Hawaii at Manoa - B.A., 1986, Biology</p>							
<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Hawaii Water Environmental Association Chi Epsilon Tau Beta Pi</p>								<p>MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Urban Land Institute Lambda Alpha International</p>							
<p>REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2001 Hawaii (PE-10270)</p>								<p>REGISTRATION (TYPE, YEAR, STATE) Hawaii Bar Association - 1990</p>							

PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES WITHIN YOUR FIRM

NAME <p style="text-align: center;">LUKE, CRAIG W.L.</p>				RESIDENT OF <p style="text-align: center;">Hawaii, USA</p>				NAME <p style="text-align: center;">SPENCER, ROBERT E.</p>				RESIDENT OF <p style="text-align: center;">Hawaii, USA</p>			
TITLE <p style="text-align: center;">Vice President and Senior Project Manager</p>								TITLE <p style="text-align: center;">Treasurer</p>							
YEARS OF EXPERIENCE		AS PRINCIPAL IN THIS FIRM		AS PRINCIPAL IN OTHER FIRMS		OTHER THAN PRINCIPAL		YEARS OF EXPERIENCE		AS PRINCIPAL IN THIS FIRM		AS PRINCIPAL IN OTHER FIRMS		OTHER THAN PRINCIPAL	
37		8		0		29		22		7		0		15	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1985, Civil Engineering								EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Purdue University - B.S., 1992, General Management							
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Chi Epsilon								MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Society for Human Resource Management							
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1990 Hawaii (PE-6935)								REGISTRATION (TYPE, YEAR, STATE) N/A							
NAME <p style="text-align: center;">YUKUMOTO, KYLE</p>				RESIDENT OF <p style="text-align: center;">Hawaii, USA</p>				NAME <p style="text-align: center;">INOUE, MICHAEL S.</p>				RESIDENT OF <p style="text-align: center;">Hawaii, USA</p>			
TITLE <p style="text-align: center;">Vice President and Manager, Water and Wastewater Department</p>								TITLE <p style="text-align: center;">Secretary / Manager, Construction Management Department</p>							
YEARS OF EXPERIENCE		AS PRINCIPAL IN THIS FIRM		AS PRINCIPAL IN OTHER FIRMS		OTHER THAN PRINCIPAL		YEARS OF EXPERIENCE		AS PRINCIPAL IN THIS FIRM		AS PRINCIPAL IN OTHER FIRMS		OTHER THAN PRINCIPAL	
28		4		0		24		38		1		0		37	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Colorado State University - M.S., 1995, Civil Engineering University of Hawaii at Manoa - B.S., 1993, Civil Engineering								EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1987, Civil Engineering							
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers American Water Works Association Water Environment Federation Chi Epsilon								MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Construction Management Association of America							
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1990 Hawaii (PE-9280)								REGISTRATION (TYPE, YEAR, STATE) Construction Quality Management for Contractors; Traffic Control Technician - 2011; Pervious Concrete Technician - 2013; OSHA 10-hour; Stormwater BMP; Concrete CM Master Cert; Fall Protection; City NPDES MS4; PACP/MACP/LACP							

GEOGRAPHIC INFORMATION SYSTEMS

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME CHING, BENTON			<small>STATUS (underline)</small> <u>Full-Time</u> Part-Time	NAME NIERMANN, JAMES A.			<small>STATUS (underline)</small> <u>Full-Time</u> Part-Time
<small>TITLE OR POSITION</small> GIS and Geospatial Coordinator			<small>YEARS OF EXPERIENCE</small> 40	<small>TITLE OR POSITION</small> GIS Specialist / Project Coordinator (Planning)			<small>YEARS OF EXPERIENCE</small> 27
<small>WITH THIS FIRM</small> 1	<small>WITH LAST FIRM (NAME & NO. OF YEARS)</small> U.S. Army Corps of Engineers (34 yrs)		<small>WITH OTHER FIRMS</small> 39	<small>WITH THIS FIRM</small> 25		<small>WITH LAST FIRM (NAME & NO. OF YEARS)</small> Waianae Coast Community Alternatives (1 yr)	<small>WITH OTHER FIRMS</small> 2
<small>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)</small> University of Hawaii at Manoa - M.S., 1994, Coastal Engineering Marquette University - B.S., 1983, Civil Engineering				<small>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)</small> University of Hawaii at Manoa - M.U.R.P., 1996, Urban and Regional Planning Johns Hopkins Nanjing University - Graduate Certificate, 1992 University of California at Santa Barbara - B.A., 1990, Asian Studies			
<small>REGISTRATION (TYPE, YEAR, STATE)</small> Professional Civil Engineer - 1997 Hawaii (PE-9346)				<small>REGISTRATION (TYPE, YEAR, STATE)</small> American Institute of Certified Planners - 2003 LEED AP BD+C - 2009			
NAME LIAO, TSUNG-I			<small>STATUS (underline)</small> <u>Full-Time</u> Part-Time	NAME STAPLES, KELLY			<small>STATUS (underline)</small> <u>Full-Time</u> Part-Time
<small>TITLE OR POSITION</small> GIS Specialist / Engineer (civil)			<small>YEARS OF EXPERIENCE</small> 21	<small>TITLE OR POSITION</small> GIS Specialist / Senior Planner			<small>YEARS OF EXPERIENCE</small> 12
<small>WITH THIS FIRM</small> 21	<small>WITH LAST FIRM (NAME & NO. OF YEARS)</small> 0		<small>WITH OTHER FIRMS</small> 0	<small>WITH THIS FIRM</small> 10		<small>WITH LAST FIRM (NAME & NO. OF YEARS)</small> University of Hawaii (1 yr)	<small>WITH OTHER FIRMS</small> 2
<small>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)</small> University of Hawaii at Manoa - M.S., 2003, Civil Engineering University of Hawaii at Manoa - B.S., 1999, Civil Engineering				<small>EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)</small> University of Hawaii at Manoa - M.S., 2013, Natural Resources & Environmental Mgmt California State University, Bakersfield - B.S., 2011, Environmental Resource Mgmt University of California at Santa Barbara - B.S., 2007, Biological Sciences			
<small>REGISTRATION (TYPE, YEAR, STATE)</small> Professional Civil Engineer - 2009 Hawaii (PE-13247) ASCE				<small>REGISTRATION (TYPE, YEAR, STATE)</small> APA, APWA			

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME MENDES, KEVIN T.			STATUS (<u>underline</u>) Full-Time Part-Time	NAME ARMSTRONG, STACY K.Y.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Project Manager (civil)			YEARS OF EXPERIENCE 34	TITLE OR POSITION Project Manager (civil)			YEARS OF EXPERIENCE 33
WITH THIS FIRM 34	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 33	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1989, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Redlands - B.S., 1990, General Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1994 Hawaii (PE-8200) LEED AP - 2009 Chi Epsilon				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1996 Hawaii (PE-8983) LEED AP BD+C - 2009 ASCE, AWWA, ITE, HAPI			
NAME OKAMOTO, MICHAEL H.			STATUS (<u>underline</u>) Full-Time Part-Time	NAME NAKAOKA, BRENT W.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Project Manager (civil)			YEARS OF EXPERIENCE 31	TITLE OR POSITION Project Manager (civil)			YEARS OF EXPERIENCE 24
WITH THIS FIRM 31	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 24	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1991, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Santa Clara University - B.S., 1999, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1995 Hawaii (PE-8624) LEED AP - 2009				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2003 Hawaii (PE-11106) LEED AP BD+C - 2009 ASCE			
NAME CHONG, WALTER G.C.			STATUS (<u>underline</u>) Full-Time Part-Time	NAME RING, GORDON T.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Project Manager (civil)			YEARS OF EXPERIENCE 33	TITLE OR POSITION Project Manager (civil)			YEARS OF EXPERIENCE 30
WITH THIS FIRM 33	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 30	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) California Institute of Technology - B.S., 1989, Engineering & Applied Sciences				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Santa Clara University - B.S., 1993, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1996 Hawaii (PE-8882) ASCE				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1997 Hawaii (PE-9300) LEED AP - 2009			

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME TATEISHI, JASON T.			STATUS (underline) <u>Full-Time</u> Part-Time	NAME NAKAMURA, CHRIS J.			STATUS (underline) <u>Full-Time</u> Part-Time
TITLE OR POSITION Project Manager (civil) and Manager, Kailua-Kona Office			YEARS OF EXPERIENCE 21	TITLE OR POSITION Senior Engineer (civil)			YEARS OF EXPERIENCE 22
WITH THIS FIRM 21	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 22		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2003, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2001, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2006 Hawaii (PE-12096)				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2005 Hawaii (PE-11666) LEED AP - 2013			
NAME NAKAMURA, MICHAEL S.			STATUS (underline) <u>Full-Time</u> Part-Time	NAME MIYASHIRO, WAYLEN H.			STATUS (underline) <u>Full-Time</u> Part-Time
TITLE OR POSITION Senior Engineer (civil)			YEARS OF EXPERIENCE 21	TITLE OR POSITION Senior Engineer (civil)			YEARS OF EXPERIENCE 19
WITH THIS FIRM 21	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 19		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2001, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2003, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2007 Hawaii (PE-12342)				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2009 Hawaii (PE-13234)			
NAME DU, CHI T.			STATUS (underline) <u>Full-Time</u> Part-Time	NAME TOM, GREGORY K.			STATUS (underline) <u>Full-Time</u> Part-Time
TITLE OR POSITION Senior Engineer (civil)			YEARS OF EXPERIENCE 17	TITLE OR POSITION Senior Engineer (civil)			YEARS OF EXPERIENCE 18
WITH THIS FIRM 17	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 18		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2006, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of California at Los Angeles (UCLA) - B.S., 2005, Civil and Environmental Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2010 Hawaii (PE-14001) ASCE				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2010 Hawaii (PE-13775) LEED AP BD+C - 2009			

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME YONG, RANDALL S.K.			STATUS (<u>underline</u>) Full-Time Part-Time		NAME LIAO, TSUNG-I			STATUS (<u>underline</u>) Full-Time Part-Time	
TITLE OR POSITION Senior Engineer (civil)			YEARS OF EXPERIENCE 20		TITLE OR POSITION Engineer (civil)			YEARS OF EXPERIENCE 20	
WITH THIS FIRM 20	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0		WITH THIS FIRM 20	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Southern California - B.S., 2002, Mechanical Engineering					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2003, Civil Engineering University of Hawaii at Manoa - B.S., 1999, Civil Engineering				
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2008 Hawaii (PE-12986) LEED AP - 2009					REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2009 Hawaii (PE-13247) ASCE				
NAME INABA, DARREN			STATUS (<u>underline</u>) Full-Time Part-Time		NAME ICHIKAWA, DANIEL H.			STATUS (<u>underline</u>) Full-Time Part-Time	
TITLE OR POSITION Engineer (civil)			YEARS OF EXPERIENCE 11		TITLE OR POSITION Engineer (civil)			YEARS OF EXPERIENCE 10	
WITH THIS FIRM 3	WITH LAST FIRM (NAME & NO. OF YEARS) AECOM (1 yr)		WITH OTHER FIRMS 8		WITH THIS FIRM 10	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Oregon State University - M.S., 2012, Water Resource Engineering Oregon State University - B.S., 2010, Civil Engineering					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Oregon State University - B.S., 2013, Civil Engineering				
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2016 Hawaii (PE-17343)					REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2017 Hawaii (PE-17842)				
NAME LUKE, CRISTINA L.			STATUS (<u>underline</u>) Full-Time Part-Time		NAME HONG, RAYSHI			STATUS (<u>underline</u>) Full-Time Part-Time	
TITLE OR POSITION Engineer (civil)			YEARS OF EXPERIENCE 9		TITLE OR POSITION Engineer (civil)			YEARS OF EXPERIENCE 8	
WITH THIS FIRM 8	WITH LAST FIRM (NAME & NO. OF YEARS) Austin, Tsutsumi & Assoc. (1 year)		WITH OTHER FIRMS 1		WITH THIS FIRM 2	WITH LAST FIRM (NAME & NO. OF YEARS) Group 70 (1 yr)		WITH OTHER FIRMS 6	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Oregon State University - B.S., 2013, Civil Engineering					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2013, Civil Engineering University of Washington - B.S., 2011, Economics, Minor in Mathematics				
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2017 Hawaii (PE-17813)					REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2018 Hawaii (PE-18077) Chi Epsilon				

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME ARDO, DAVID			STATUS (<u>underline</u>) Full-Time Part-Time		NAME SHON, JESSICA			STATUS (<u>underline</u>) Full-Time Part-Time	
TITLE OR POSITION Engineer (civil)			YEARS OF EXPERIENCE 7		TITLE OR POSITION Assistant Engineer II (civil)			YEARS OF EXPERIENCE 6	
WITH THIS FIRM 7	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0		WITH THIS FIRM 6	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2016, Civil Engineering					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2017, Civil Engineering				
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2020 Hawaii (PE-19226) Chi Epsilon					REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2017 Hawaii				
NAME NINOMIYA, MATTHEW			STATUS (<u>underline</u>) Full-Time Part-Time		NAME CO, CHRISTOPHER			STATUS (<u>underline</u>) Full-Time Part-Time	
TITLE OR POSITION Assistant Engineer II (civil)			YEARS OF EXPERIENCE 4		TITLE OR POSITION Assistant Engineer II (civil)			YEARS OF EXPERIENCE 4	
WITH THIS FIRM 4	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0		WITH THIS FIRM 4	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2019, Civil Engineering					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2019, Civil Engineering				
REGISTRATION (TYPE, YEAR, STATE) N/A					REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2019 Hawaii				
NAME BISSEN, BRIAN			STATUS (<u>underline</u>) Full-Time Part-Time		NAME FONG, DYLAN			STATUS (<u>underline</u>) Full-Time Part-Time	
TITLE OR POSITION Assistant Engineer II (civil)			YEARS OF EXPERIENCE 4		TITLE OR POSITION Assistant Engineer II (civil)			YEARS OF EXPERIENCE 3	
WITH THIS FIRM 4	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0		WITH THIS FIRM 2	WITH LAST FIRM (NAME & NO. OF YEARS) Group 70 (1 yr)		WITH OTHER FIRMS 1	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2019, Civil Engineering					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Seattle University - B.S., 2020, Civil Engineering - Environmental Specialty, Minor in Mathematics				
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2019 Hawaii					REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2019 Washington				

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME		STATUS (underline)		NAME		STATUS (underline)	
REMO, LUIGI		<u>Full-Time</u> Part-Time		KAMIKAWA, KEENAN		<u>Full-Time</u> Part-Time	
TITLE OR POSITION		YEARS OF EXPERIENCE		TITLE OR POSITION		YEARS OF EXPERIENCE	
Assistant Engineer I (civil)		3		Assistant Engineer I (civil)		1	
WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS		WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS	
3	0	0		1	0	0	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)			
Loyola Marymount University - B.S., 2020, Civil Engineering				Portland State University - B.S., 2022, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE)				REGISTRATION (TYPE, YEAR, STATE)			
N/A				ASCE			

ENGINEERING DEPARTMENT (ENVIRONMENTAL)

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME			STATUS (<u>underline</u>)	NAME			STATUS (<u>underline</u>)
NISHIKAWA, JAIME L.M.			Full-Time Part-Time	WONG, TIOW PING			Full-Time Part-Time
TITLE OR POSITION Project Manager (wastewater)			YEARS OF EXPERIENCE 21	TITLE OR POSITION Chief of Wastewater Technology			YEARS OF EXPERIENCE 22
WITH THIS FIRM 21		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0	WITH THIS FIRM 22		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2001, Environmental Engineering Santa Clara University - B.S., 1999, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2001, Environmental Engineering University of Hawaii at Manoa - B.S., 1998, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2004 Hawaii (PE-11115) LEED AP BD+C - 2009 ASCE, WEF				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2005 Hawaii (PE-11465) ASCE, WEF			
MIYASATO, ANN Y.			Full-Time Part-Time	TASAKA, JAYSON C. T.			Full-Time Part-Time
TITLE OR POSITION Project Manager (wastewater)			YEARS OF EXPERIENCE 22	TITLE OR POSITION Senior Engineer (wastewater)			YEARS OF EXPERIENCE 10
WITH THIS FIRM 22		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0	WITH THIS FIRM 10		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Notre Dame - M.S., 2001, Civil Engineering University of Hawaii at Manoa - B.S., 1997, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2013, Civil and Environmental Engineering University of Hawaii at Manoa - B.S., 2010, Civil and Environmental Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2004 Hawaii (PE-11253); LEED AP - 2009; Certified Water Pollution Plan Preparer (City DPP); NASSCO PACP/LACP/MACP ASCE, WEF, CMAA, Chi Epsilon				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2016 Hawaii (PE-17285) ASCE, WEF			
IMANAKA, NICOLE			Full-Time Part-Time	TSUCHIDA, TYLER			Full-Time Part-Time
TITLE OR POSITION Engineer (wastewater)			YEARS OF EXPERIENCE 10	TITLE OR POSITION Engineer (wastewater)			YEARS OF EXPERIENCE 7
WITH THIS FIRM 9		WITH LAST FIRM (NAME & NO. OF YEARS) AECOM (1 year)	WITH OTHER FIRMS 1	WITH THIS FIRM 7		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Seattle University - B.S., 2012, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2019, Civil and Environmental Engineering University of Hawaii at Manoa - B.S., 2016, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2018 Hawaii (PE-18034) Envision™ Sustainability Professional Credential ENV SP - 2017 ASCE				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2019 Hawaii (PE-18869) WEF Chi Epsilon			

ENGINEERING DEPARTMENT (ENVIRONMENTAL)

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME ICHIKAWA, CHELSEA		STATUS (<u>underline</u>) Full-Time Part-Time	NAME SUDA, JONATHAN		STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Engineer (wastewater)		YEARS OF EXPERIENCE 8	TITLE OR POSITION Assistant Engineer II (wastewater)		YEARS OF EXPERIENCE 4
WITH THIS FIRM 8	WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0	WITH THIS FIRM 4	WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Oregon State University - B.S., 2014, Environmental Engineering			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2019, Biological Engineering		
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2021 Hawaii (PE-19465) ASCE			REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2019 Hawaii		
NAME ASPER, JOSHUA		STATUS (<u>underline</u>) Full-Time Part-Time	NAME LEE, SHELDON K.		STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Assistant Engineer II (wastewater)		YEARS OF EXPERIENCE 4	TITLE OR POSITION Assistant Engineer I (wastewater)		YEARS OF EXPERIENCE 3
WITH THIS FIRM 4	WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0	WITH THIS FIRM 3	WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2020, Civil Engineering			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Oregon State University - B.S., 2020, Environmental Engineering, Minor in Chemistry		
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2020 Hawaii Erosion and Sediment Control Plan Coordinator (City DPP)			REGISTRATION (TYPE, YEAR, STATE) N/A		
NAME WASHINO, STEVEN		STATUS (<u>underline</u>) Full-Time Part-Time	NAME KAGAMIDA, CONNOR		STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Assistant Engineer I (wastewater)		YEARS OF EXPERIENCE 3	TITLE OR POSITION Assistant Engineer I (wastewater)		YEARS OF EXPERIENCE 2
WITH THIS FIRM 3	WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0	WITH THIS FIRM 2	WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2020, Civil and Environmental Engineering Kapiolani Community College - A.S., 2018, Pre-Engineering and Natural Sciences			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2022, Civil Engineering University of Hawaii at Manoa - B.S., 2021, Civil Engineering		
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2020 Hawaii			REGISTRATION (TYPE, YEAR, STATE) EnvisionTM Sustainability Professional Credential ENV SP - 2020 Chi Epsilon Institute of Transportation Engineers		

ENGINEERING DEPARTMENT (ENVIRONMENTAL)

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME ANCHETA, JACEN			STATUS (underline) <u>Full-Time</u> Part-Time			NAME EMOTO, KELCIE			STATUS (underline) <u>Full-Time</u> Part-Time		
TITLE OR POSITION Assistant Engineer I (wastewater)			YEARS OF EXPERIENCE 1			TITLE OR POSITION Environmental Scientist			YEARS OF EXPERIENCE 8		
WITH THIS FIRM 1		WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0		WITH THIS FIRM 3		WITH LAST FIRM (NAME & NO. OF YEARS) Weston Solutions (1.5 yrs)		WITH OTHER FIRMS 5	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2023, Civil Engineering University of Hawaii at Manoa - B.S., 2022, Civil Engineering						EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Creighton University - B.S., 2015, Environmental Science, minors in Environmental Policy and Biology					
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2023 Hawaii						REGISTRATION (TYPE, YEAR, STATE) HAZWOPER, OSHA Construction Management Training, Hawaii Class A/B Underground Storage Tank (UST) Operator Training, Construction Quality Management for Contractors, 3M Respiration Certification, TWIC					
NAME TSUTSUI, BLAKE			STATUS (underline) <u>Full-Time</u> Part-Time			NAME FONG, SHUI YEE			STATUS (underline) <u>Full-Time</u> Part-Time		
TITLE OR POSITION Design Visualization Artist			YEARS OF EXPERIENCE 10			TITLE OR POSITION Draftsman / CADD Technician (wastewater)			YEARS OF EXPERIENCE 29		
WITH THIS FIRM 3		WITH LAST FIRM (NAME & NO. OF YEARS) Freelance (7 yrs)		WITH OTHER FIRMS 7		WITH THIS FIRM 29		WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) The Art Institute of California Los Angeles - A.S., 2013, Graphic Design						EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Honolulu Community College - A.S., 1988, Architectural Drafting					
REGISTRATION (TYPE, YEAR, STATE) N/A						REGISTRATION (TYPE, YEAR, STATE) N/A					

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME TAKEDA, BRIAN A.			STATUS (<u>underline</u>) Full-Time Part-Time	NAME NIERMANN, JAMES A.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Project Manager (Planning)			YEARS OF EXPERIENCE 37	TITLE OR POSITION Project Coordinator (Planning)			YEARS OF EXPERIENCE 27
WITH THIS FIRM 32	WITH LAST FIRM (NAME & NO. OF YEARS) State of Hawaii, Office of State Planning (5 yrs)		WITH OTHER FIRMS 5	WITH THIS FIRM 25	WITH LAST FIRM (NAME & NO. OF YEARS) Waianae Coast Community Alternatives (1 yr)		WITH OTHER FIRMS 2
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.U.R.P., 1987, Urban and Regional Planning University of Hawaii at Manoa - B.A., 1978, Sociology				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.U.R.P., 1996, Urban and Regional Planning Johns Hopkins Nanjing University - Graduate Certificate, 1992 University of California at Santa Barbara - B.A., 1990, Asian Studies			
REGISTRATION (TYPE, YEAR, STATE) APA, ASCE, AWWA				REGISTRATION (TYPE, YEAR, STATE) American Institute of Certified Planners - 2003 LEED AP BD+C - 2009 APWA			
NAME STAPLES, KELLY			STATUS (<u>underline</u>) Full-Time Part-Time	NAME LEE, ROXANNE			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Senior Planner			YEARS OF EXPERIENCE 12	TITLE OR POSITION Planner			YEARS OF EXPERIENCE 8
WITH THIS FIRM 10	WITH LAST FIRM (NAME & NO. OF YEARS) University of Hawaii (1 yr)		WITH OTHER FIRMS 2	WITH THIS FIRM 5	WITH LAST FIRM (NAME & NO. OF YEARS) Queen Liliuokalani Trust (1 yr)		WITH OTHER FIRMS 3
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - M.S., 2013, Natural Resources & Environmental Mgmt California State University, Bakersfield - B.S., 2011, Environmental Resource Mgmt University of California at Santa Barbara - B.S., 2007, Biological Sciences				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Washington - M.L.A., 2016, Landscape Architecture University of California, San Diego - B.A., 2009, Visual Arts and Environmental Studies			
REGISTRATION (TYPE, YEAR, STATE) APA, APWA				REGISTRATION (TYPE, YEAR, STATE) American Society of Landscape Architects LEED GA			
NAME SATO, ISIAH			STATUS (<u>underline</u>) Full-Time Part-Time	NAME MARCHANT, MICHELLE J.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Assistant Planner II			YEARS OF EXPERIENCE 8	TITLE OR POSITION Assistant Planner II			YEARS OF EXPERIENCE 6
WITH THIS FIRM 8	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 5	WITH LAST FIRM (NAME & NO. OF YEARS) Spin 5-0 (1 yr)		WITH OTHER FIRMS 1
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2015, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2017, Global Environmental Science and Psychology			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2019 Hawaii (PE-18871)				REGISTRATION (TYPE, YEAR, STATE) N/A			

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME HARRISON, ALEC		STATUS (underline) <u>Full-Time</u> Part-Time	NAME EATON, ALENA		STATUS (underline) <u>Full-Time</u> Part-Time
TITLE OR POSITION Assistant Planner II		YEARS OF EXPERIENCE 5	TITLE OR POSITION Assistant Planner I		YEARS OF EXPERIENCE 2
WITH THIS FIRM 4	WITH LAST FIRM (NAME & NO. OF YEARS) City of Boise (1 yr)	WITH OTHER FIRMS 1	WITH THIS FIRM 1	WITH LAST FIRM (NAME & NO. OF YEARS) Self Employed (1 yr)	WITH OTHER FIRMS 1
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Colorado State University - M.S., 2019, Natural Resource Management University of Idaho - B.S., 2016, Biological and Agricultural Engineering			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Southern Oregon University - B.S., 2016, Environmental Studies, Minor in Outdoor Adventure Leadership, Certificate in Sustainable Leadership		
REGISTRATION (TYPE, YEAR, STATE) N/A			REGISTRATION (TYPE, YEAR, STATE) Scuba, Open Water Certified		

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME SUZUKI, RYAN M.			STATUS (<u>underline</u>) Full-Time Part-Time	NAME BUMANGLAG, AL-GREG			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Project Manager (surveying)			YEARS OF EXPERIENCE 28	TITLE OR POSITION Surveyor			YEARS OF EXPERIENCE 39
WITH THIS FIRM 28	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 19		WITH LAST FIRM (NAME & NO. OF YEARS) Control Point (20 yrs)	WITH OTHER FIRMS 20
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1994, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A			
REGISTRATION (TYPE, YEAR, STATE) Licensed Land Court Surveyor - 2001 Hawaii (LC-280) Licensed Land Surveyor - 2000 Hawaii (LS-10059) Engineer-in-Training (EIT) - 1994 Hawaii; HSLA				REGISTRATION (TYPE, YEAR, STATE) N/A			
NAME VALDEZ, BENJAMIN M.			STATUS (<u>underline</u>) Full-Time Part-Time	NAME GONZALES, DONNA			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Party Chief / Photogrammetrist (surveying)			YEARS OF EXPERIENCE 36	TITLE OR POSITION Surveyor			YEARS OF EXPERIENCE 10
WITH THIS FIRM 32	WITH LAST FIRM (NAME & NO. OF YEARS) National Mapping/Resource Info Authority, Ft. Bonifacio, PI (2 yrs)		WITH OTHER FIRMS 4	WITH THIS FIRM 10		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of the Philippines - Diploma Course, 1991, Applied Geodesy and Photogrammetry Baguio College Foundation - B.S., 1985, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2013, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Licensed Land Surveyor - 2010 Hawaii (LS-14022) HSLA				REGISTRATION (TYPE, YEAR, STATE) Licensed Land Surveyor - 2023 Hawaii (LS-20178) HSLA			
NAME TOBA, DANIEL H.			STATUS (<u>underline</u>) Full-Time Part-Time	NAME MASHIYAMA, NATHAN			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Assistant Surveyor II (surveying)			YEARS OF EXPERIENCE 17	TITLE OR POSITION Assistant Surveyor I			YEARS OF EXPERIENCE 2
WITH THIS FIRM 17	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 2		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2006, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2021, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2006 Hawaii HSLA				REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2021 Hawaii			

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME SUZUKI, TIFFANY			STATUS (<u>underline</u>) Full-Time Part-Time		NAME BELL, LEO			STATUS (<u>underline</u>) Full-Time Part-Time		
TITLE OR POSITION Assistant Surveyor I			YEARS OF EXPERIENCE 1		TITLE OR POSITION Survey Technician II			YEARS OF EXPERIENCE 8		
WITH THIS FIRM 1		WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0		WITH THIS FIRM 5		WITH LAST FIRM (NAME & NO. OF YEARS) Wes Thomas Assoc. (2 yrs)		WITH OTHER FIRMS 3
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Humboldt State University - B.S., 2013, Environmental Science, Policy					
REGISTRATION (TYPE, YEAR, STATE) N/A					REGISTRATION (TYPE, YEAR, STATE) N/A					
NAME MIRANDA, DANIEL B.			STATUS (<u>underline</u>) Full-Time Part-Time		NAME SISON, NORWIN			STATUS (<u>underline</u>) Full-Time Part-Time		
TITLE OR POSITION Party Chief (surveying)			YEARS OF EXPERIENCE 32		TITLE OR POSITION Party Chief (surveying)			YEARS OF EXPERIENCE 20		
WITH THIS FIRM 32		WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0		WITH THIS FIRM 1		WITH LAST FIRM (NAME & NO. OF YEARS) Alcon & Associates / CM&E Engineering (15 yrs)		WITH OTHER FIRMS 19
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) National University of Manila - B.S., 1983, Sanitary Engineering National University of Manila - B.S., 1982, Civil Engineering					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Cordilleras - B.S., 1987, Civil Engineering					
REGISTRATION (TYPE, YEAR, STATE) N/A					REGISTRATION (TYPE, YEAR, STATE) N/A					
NAME NIVERA, BENJAMIN N.			STATUS (<u>underline</u>) Full-Time Part-Time		NAME ROCIMO, MEDARDO			STATUS (<u>underline</u>) Full-Time Part-Time		
TITLE OR POSITION Party Chief (surveying)			YEARS OF EXPERIENCE 23		TITLE OR POSITION Survey Technician			YEARS OF EXPERIENCE 16		
WITH THIS FIRM <1		WITH LAST FIRM (NAME & NO. OF YEARS) Control Point (23 yrs)		WITH OTHER FIRMS 23		WITH THIS FIRM 16		WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A					EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A					
REGISTRATION (TYPE, YEAR, STATE) N/A					REGISTRATION (TYPE, YEAR, STATE) N/A					

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME BONILLA, FLORENDO			STATUS (<u>underline</u>) Full-Time Part-Time	NAME BALTAZAR, MISADEGALLO			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Survey Technician			YEARS OF EXPERIENCE 10	TITLE OR POSITION Survey Technician			YEARS OF EXPERIENCE 2
WITH THIS FIRM 10	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 2	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A			
REGISTRATION (TYPE, YEAR, STATE) N/A				REGISTRATION (TYPE, YEAR, STATE) N/A			
NAME BUMANGLAG, JASPER			STATUS (<u>underline</u>) Full-Time Part-Time	NAME MINAMI, KENNETH Y.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Survey Technician			YEARS OF EXPERIENCE 1	TITLE OR POSITION Cartographer (surveying)			YEARS OF EXPERIENCE 45
WITH THIS FIRM 1	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 37	WITH LAST FIRM (NAME & NO. OF YEARS) HMSA (8 yrs)		WITH OTHER FIRMS 8
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1969, Meteorology			
REGISTRATION (TYPE, YEAR, STATE) N/A				REGISTRATION (TYPE, YEAR, STATE) N/A			

CONSTRUCTION MANAGEMENT DEPARTMENT

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

YEE, LYDIA S.			STATUS (<u>underline</u>) Full-Time Part-Time	HEE, GREGORY P.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Construction Manager			YEARS OF EXPERIENCE 34	TITLE OR POSITION Construction Manager			YEARS OF EXPERIENCE 47
WITH THIS FIRM 33	WITH LAST FIRM (NAME & NO. OF YEARS) Environet, Inc. (1 yr)		WITH OTHER FIRMS 1	WITH THIS FIRM 3	WITH LAST FIRM (NAME & NO. OF YEARS) City and County of Honolulu (38 yrs)		WITH OTHER FIRMS 44
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1989, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Washington - Masters of Architecture, 1976 University of Washington - B.A., 1973, Environmental Design			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1994 Hawaii (PE-8291); Certified Construction Manager; CMAA; ASCE; Traffic Control Tech; CIPP Installation Inspection; Construction Quality Mgmt for Contractors; Pervious Concrete Tech; OSHA; NASSCO PACP/LACP/MACP				REGISTRATION (TYPE, YEAR, STATE) Registered Architect - 1978 Hawaii (RA-4460)			
TAKAHASHI, GARY M.			STATUS (<u>underline</u>) Full-Time Part-Time	YAMASHITA, LAMBERT			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Construction Manager			YEARS OF EXPERIENCE 34	TITLE OR POSITION Construction Manager			YEARS OF EXPERIENCE 41
WITH THIS FIRM 34	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 3	WITH LAST FIRM (NAME & NO. OF YEARS) AECOM (9 yrs)		WITH OTHER FIRMS 38
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1989, Civil Engineering Honolulu Community College - Attended 1981-86, Engineering Technology				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 1979, Civil Engineering University of Hawaii at Manoa - B.S., 1974, Biology University of Hawaii at Manoa - B.S., 1974, Zoology			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1995 Hawaii (PE-8689); CMAA; Pervious Concrete Technician; Construction Quality Management for Contractors; OSHA 10-hour; Storm Water BMP; City NPDES MS4; Fall Protection; ACE Safety Mgmt Systems; ACE SMS				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1983 Hawaii (PE-5492); Professional Civil Engineer - 1990 Commonwealth of the Northern Mariana Islands (#103); NPDES MS4; Erosion and Sediment Control Plan Preparer; Certified Water Pollution Plan Preparer			
CARPENTER, DARREN H.			STATUS (<u>underline</u>) Full-Time Part-Time	REYES, JAN K.			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Construction Manager			YEARS OF EXPERIENCE 37	TITLE OR POSITION Construction Manager			YEARS OF EXPERIENCE 21
WITH THIS FIRM 2	WITH LAST FIRM (NAME & NO. OF YEARS) US Army Corps of Engineers (29 yrs)		WITH OTHER FIRMS 35	WITH THIS FIRM 2	WITH LAST FIRM (NAME & NO. OF YEARS) Fluid Technologies, Inc. (2 yrs)		WITH OTHER FIRMS 19
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Phoenix, APO, Armed Forces Pacific - Master of Management, 2006 University of Hawaii at Manoa - B.S., 1986, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2002, Biosystems Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 1992 Hawaii (PE-7686); USACE Leadership Program Level III, Formal Source Selection, Supervisory Development Training, Construction Contract Admin, Design-Build Construction; Various DAWIA Training; Excavation				REGISTRATION (TYPE, YEAR, STATE) NASSCO PACP/MACP/LACP, Confined Space Competent Person for Construction, General Industry, and Shipyards			

CONSTRUCTION MANAGEMENT DEPARTMENT

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME HONG, MICHAEL S.H.			STATUS (underline) <u>Full-Time</u> Part-Time	NAME YAMASHITA, DIANA			STATUS (underline) <u>Full-Time</u> Part-Time
TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 19	TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 13
WITH THIS FIRM 19	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 13		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2005, Mechanical Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2010, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2011 Hawaii (PE-14761); Certified Construction Manager-2021; CMAA; OSHA 10-hr; Field Sampling&Testing; StormWater BMP; CIPP; ACI Concrete Tech; ACI Concrete Inspector; PACP/LACP/MACP; City NPDES MS4				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2015 Hawaii (PE-16555); ASCE; Certified Water Pollution Plan Preparer (City); Erosion and Sediment Control Plan Coordinator (City); Scaffold Awareness (BIA); NPDES MS4			
NAME KARLSON, MICHAEL R.			STATUS (underline) <u>Full-Time</u> Part-Time	NAME KAICHI, EVAN W.			STATUS (underline) <u>Full-Time</u> Part-Time
TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 13	TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 7
WITH THIS FIRM 9	WITH LAST FIRM (NAME & NO. OF YEARS) MGE Underground (1 yr)		WITH OTHER FIRMS 4	WITH THIS FIRM 7		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2010, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Northern Arizona University - B.S., 2016, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2010 Hawaii; Field Sampling & Testing; Storm Water BMPs; Traffic Control Tech; NASSCO PACP/LACP/MACP; Confined Space; Concrete Testing; Excavation & Trenching; CIPP; NPDES MS4; Airport Safety Mgmt; CPM Scheduling				REGISTRATION (TYPE, YEAR, STATE) Professional Civil Engineer - 2023 Hawaii (PE-20189) ASCE, ITE; Field Sampling & Testing; Concrete Fundamentals Master Cert.; City NPDES MS4 Annual Training; OSHA 10-hr			
NAME HARAGUCHI, TARYN A.			STATUS (underline) <u>Full-Time</u> Part-Time	NAME ESTABILIO, BRYCE			STATUS (underline) <u>Full-Time</u> Part-Time
TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 7	TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 7
WITH THIS FIRM 7	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 7		WITH LAST FIRM (NAME & NO. OF YEARS) 0	WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Oregon State University - B.S., 2016, Construction Engineering Management				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2017, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2016 Oregon Field Sampling & Testing; ACI - Concrete Testing; City NPDES MS4 Annual Training; PACP/MACP/LACP; OSHA 10-hour; Fall Protection				REGISTRATION (TYPE, YEAR, STATE) ASCE, ITE, Certified Inspector of Sediment & Erosion Control, Field Sampling & Testing, Concrete Fundamentals-Master Certificate, ACI Concrete Field Testing Tech - Grade I; OSHA 10-hour; NPDES MS4			

CONSTRUCTION MANAGEMENT DEPARTMENT

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

SAKO, RYNE			STATUS (<u>underline</u>) Full-Time Part-Time	ESTABILIO, KERRI			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 3	TITLE OR POSITION Construction Engineer			YEARS OF EXPERIENCE 3
WITH THIS FIRM 3	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0	WITH THIS FIRM 3	WITH LAST FIRM (NAME & NO. OF YEARS) 0		WITH OTHER FIRMS 0
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2020, Civil Engineering				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa - B.S., 2020, Civil Engineering			
REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2021 Hawaii ASCE, Chi Epsilon, NPDES MS4, Excavation & Trenching, ACI Concrete Anchor Inspector; NASSCO PACP/LACP/MACP				REGISTRATION (TYPE, YEAR, STATE) Engineer-in-Training - 2021 Hawaii City NPDES MS4 Annual Training, PACP-NASSCO, Excavation & Trenching			
CURNAN, DANIEL			STATUS (<u>underline</u>) Full-Time Part-Time	HELENIHI, GEORGE			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Construction Inspector			YEARS OF EXPERIENCE 47	TITLE OR POSITION Construction Inspector			YEARS OF EXPERIENCE 43
WITH THIS FIRM 6	WITH LAST FIRM (NAME & NO. OF YEARS) AECOM (16 yrs)		WITH OTHER FIRMS 41	WITH THIS FIRM 5	WITH LAST FIRM (NAME & NO. OF YEARS) Watts Construction (6 yrs)		WITH OTHER FIRMS 38
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Honolulu Community College - Journeyman's Certificate, Carpentry University of Hawaii, College of Continuing Education and Community Service - Certificate of Completion in U.S. Labor History			
REGISTRATION (TYPE, YEAR, STATE) OSHA 10-hour; ECCATS Environmental; Field Sampling & Testing				REGISTRATION (TYPE, YEAR, STATE) N/A			
O'HARA, NORMAN			STATUS (<u>underline</u>) Full-Time Part-Time	HO, PHILLIP			STATUS (<u>underline</u>) Full-Time Part-Time
TITLE OR POSITION Construction Inspector			YEARS OF EXPERIENCE 36	TITLE OR POSITION Construction Inspector			YEARS OF EXPERIENCE 30
WITH THIS FIRM 6	WITH LAST FIRM (NAME & NO. OF YEARS) Kiewit Infrastructure West (1 yr)		WITH OTHER FIRMS 30	WITH THIS FIRM 8	WITH LAST FIRM (NAME & NO. OF YEARS) Frank Collucio Construction (9 yrs)		WITH OTHER FIRMS 22
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Honolulu Community College - A.S., 1987, Diesel Maintenance and Repair			
REGISTRATION (TYPE, YEAR, STATE) OSHA 30-hour; Superintendent Training - Carpenters International Training Center; City NPDES MS4 Annual Training				REGISTRATION (TYPE, YEAR, STATE) OSHA 10-hour; ACI Concrete Testing Tech, Grade 1; Field Sampling and Testing - Soils & Aggregate, Concrete; Storm Water BMP; Best Practices Asphalt Pavements; NPDES MS4; Fall Protection; Certified Inspector of Sediment & Erosion Control			

CONSTRUCTION MANAGEMENT DEPARTMENT

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

MCADAM, SCOTT			NEIGHBARGER, NEIL		
NAME			NAME		
<u>Full-Time</u> Part-Time			<u>Full-Time</u> Part-Time		
STATUS (underline)			STATUS (underline)		
Construction Inspector			Construction Inspector		
TITLE OR POSITION			TITLE OR POSITION		
29			20		
YEARS OF EXPERIENCE			YEARS OF EXPERIENCE		
2	City and County of Honolulu (27 yrs)	27	3	Watts Constructors (4 yrs)	17
WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS	WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A		
REGISTRATION (TYPE, YEAR, STATE) Grade 4 Collection System Operator; OSHA - Trenching and Shoring; ATSSA Certified Flagger; Confined Space, City NPDES MS4 Annual Training; Excavation & Trenching; MASSCO PACP/LACP/MACP			REGISTRATION (TYPE, YEAR, STATE) NASSCO PACP/MACP/LACP, City NPDES MS4 Annual Training; Safety Intelligence Institute Excavation and Trenching; Erosion and Sediment Control Plan Coordinator		
DEMELLO, WILFRED			FITT, JAMES		
NAME			NAME		
<u>Full-Time</u> Part-Time			<u>Full-Time</u> Part-Time		
STATUS (underline)			STATUS (underline)		
Construction Inspector			Construction Inspector		
TITLE OR POSITION			TITLE OR POSITION		
11			27		
YEARS OF EXPERIENCE			YEARS OF EXPERIENCE		
1	Pural Water Specialty Co. (4 yrs)	10	1	Osmosis Utility Services, Inc (14 yrs)	26
WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS	WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) N/A		
REGISTRATION (TYPE, YEAR, STATE) DSO I Certified			REGISTRATION (TYPE, YEAR, STATE) HDOT Medical Examiner's Certificate		
<u>Full-Time</u> Part-Time			<u>Full-Time</u> Part-Time		
STATUS (underline)			STATUS (underline)		
0			0		
YEARS OF EXPERIENCE			YEARS OF EXPERIENCE		
WITH THIS FIRM			WITH THIS FIRM		
WITH LAST FIRM (NAME & NO. OF YEARS)			WITH LAST FIRM (NAME & NO. OF YEARS)		
WITH OTHER FIRMS			WITH OTHER FIRMS		
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)		
REGISTRATION (TYPE, YEAR, STATE)			REGISTRATION (TYPE, YEAR, STATE)		

OUTSIDE ASSOCIATES AND CONSULTANTS USUALLY EMPLOYED

DISCIPLINE	NAME OF FIRM OR INDIVIDUAL	
ARCHITECTS	Anbe Aruga & Ishizu Architects Architects Hawaii, Ltd. AM Partners, Inc. Architects Pacific, Inc. CDS International Danilo Lopez & Associates Design Partners, Inc. Ferraro Choi Architects, Inc. Franklin Wong & Associates, Ltd Fung Associates, Inc. hiarchy llp INK Architects, Inc.	Kauahikaua & Chun Kober / Hanssen / Mitchell KYA Design Group Mitsunaga & Associates, Inc Next Design, LLC Pacific Architects, Inc. Paul S. Osumi, Inc. Shimokawa + Nakamura WATG WCIT Architecture Yamasato Fujiwara Higa & Assoc
CIVIL / WATER / WASTEWATER ENGINEERS	In-House Carollo Engineers Engineering Partners, Inc.	Jacobs McGovern McDonald Engineers Stantec
MECHANICAL / FIRE PROTECTION ENGINEERS	Coffman Engineers Engineering Partners, Inc. InSynergy Engineering, Inc. MCE International, Inc. Mechanical Engineers of Hawaii	Mechanical Enterprises, Inc. Notkin Hawaii, Inc. Okahara & Associates, Inc. Randolph Murayama & Assoc. Inc Thermal Engineering Corporation
GEOTECHNICAL ENGINEERS	Geolabs, Inc. Hirata & Associates, Inc. Masa Fujioka & Associates	Pacific Geotechnical Engineers Yogi Kwong Engineers, LLC
ELECTRICAL ENGINEERS	Albert Chong & Associates, Inc. ECM, Inc. ECS, Inc. Engineering Partners, Inc. H&O-III, Inc. HHMI Corporation InSynergy Engineering, Inc.	MK Engineers, Ltd. Morikawa & Associates, Inc. Ronald N.S. Ho & Associates, Inc. Wallace T. Oki, Inc. Nakamura Oyama & Associates TJC & Associates, Inc. (SCADA) Yuki Matsumoto & Associates
PERMITTING / PLANNERS	In-House PBR Hawaii & Associates, Inc.	Kimura International SSFm International
FLORA & FAUNA CONSULTANTS	AECOS, Inc. LeGrande Biological Surveys	Phillip Bruner
WATER QUALITY	AECOS, Inc.	
OCEAN ENGINEERING	Oceanit	Sea Engineering, Inc.
RESOURCE SURVEYS	SMS Research & Marketing, Inc.	
VULNERABILITY SECURITY AND ASMT	Hinman Consulting Engineers	Kroll Schiff & Associates
HYDRAULIC TRANSIENT ANALYST	Flow Science, Inc.	Scott Foster Engineering, Inc

DISCIPLINE	NAME OF FIRM OR INDIVIDUAL	
STRUCTURAL ENGINEERS	Alvin Zane & Associates, Inc. Engineering Partners, Inc. GKO & Associates KAD, Inc. KAI Hawaii, Inc. KSF, Inc. M&A Hawaii, Inc Nagamine Okawa Engineers, Inc.	NTW Associates, Inc. Sato & Associates, Inc. Shigemura, Lau, Sakanashi, Higuchi & Associates, Inc. SSFm International Warren S. Unemori Engineering, Inc Wes Segawa & Associates
ENVIRONMENTAL CONSULTANTS	Kauai Environmental, Inc. Element Environmental, LLC EnviroServices & Training Center	Integrated Consultants Myounghee Noh & Associates, Owen Environmental, Inc.
ACOUSTICAL ENG.	D.L. Adams Associates, Inc.	Y. Ebisu & Associates, Inc.
ARCHAEOLOGY	'Aina Archaeology Cultural Services Hawaii, Inc.	International Archaeology Scientific Consulting Services
TRAFFIC ENGINEERS	Austin Tsutsumi & Assoc., Inc. Fehr & Peers ICX Transportation Group Julian Ng, Incorporated Phillip Rowell & Associates	SSFm International Traffic Management Consultant Transportation Solutions, Inc. Wilson Okamoto Corporation WSP
COST ESTIMATORS	In-House Pacific Cost Engineering, LLC J. Uno & Associates	Construction Cost Management International Corp. Rider Levett Bucknall
HYDROGEOLOGICAL ENGINEERS	Element Environmental Mink & Yuen, Inc. MRC LLC	Tom Nance Water Resource Engineering, Inc. Water Resources Associates
SURVEYING	In-House Austin, Tsutsumi & Associates Drone Services Hawaii Engineering Partners, Inc.	Engineers Surveyors Hawaii Esaki Surveying and Mapping Par-En dba Park Engineering Resource Mapping Hawaii, LLC
TELECOMMUNICATIONS CONSULTING	AT&T Wireless InSynergy Engineering, Inc.	Ronald N.S. Ho & Associates
LANDSCAPE ARCHITECTS	Brownlie & Lee Lester H. Inouye & Associates Miyabara & Associates PBR Hawaii & Associates, Inc.	Randal Fujimoto Landscape Arc Richard Bigler & Associates Walters Kimura Motoda, Inc.
STUDENT HOUSING	American Campus Communities	Hawaii Campus Developers
OTHER CONSULTANT AFFILIATIONS	Sewer Tunneling: McMillen Jacobs Associates Field Measurements for Wastewater: MGD Corrosion / Condition Assessments: V&A Consulting Engineers Real Estate Appraisal: Yamaguchi & Yamaguchi	

ERRORS AND OMISSIONS INSURANCE

DOES YOUR FIRM HAVE ERRORS & OMISSION (E&O) INSURANCE? (Underline)			AMOUNT OF COVERAGE PER CLAIM	AMOUNT OF DEDUCTIBLE
<u>YES</u>	NO	PROJECT INSURANCE	\$ 2,000,000	\$ 250,000

Submit proof of insurance or insurability from your insurance carrier with this form.
Proof of insurance is attached on the following page.

SUMMARY OF YOUR FIRM'S COMPLETED AND PRESENT PROJECTS DURING THE LAST TEN YEARS

AS A PRIME A/E CONSULTANT

TOTAL NUMBER OF COMPLETED PROJECTS	1,850
TOTAL ESTIMATED CONSTRUCTION COST OF COMPLETED PROJECTS	\$ 2,000,000,000
TOTAL NUMBER OF PRESENT PROJECTS	450
TOTAL ESTIMATED CONSTRUCTION COST OF PRESENT PROJECTS	\$ 1,000,000,000+

AS AN ASSOCIATE WITH OTHER A/E CONSULTANTS

TOTAL NUMBER OF COMPLETED PROJECTS	450
TOTAL ESTIMATED CONSTRUCTION COST OF COMPLETED PROJECTS (ONLY THE PORTION OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)	\$ 140,000,000
TOTAL NUMBER OF PRESENT PROJECTS	120
TOTAL ESTIMATED CONSTRUCTION COST OF PRESENT PROJECTS (ONLY THE PORTION OF WORK FOR WHICH YOUR FIRM IS RESPONSIBLE)	\$100,000,000+

CLASS OF WORK AND PROJECT TYPE SPECIALIZATION

TYPE OF PROJECT	TOTAL NO. OF COMPLETED PROJECTS	TOTAL ESTIMATED CONSTRUCTION COST	TOTAL ESTIMATED PROJECT SIZE (G.S.F.)
Civil Engineering, including Wastewater Engineering	850	\$1,900,000,000	N/A
Surveying and Photogrammetry	1,300	N/A	N/A
Planning	255	N/A	N/A
Construction Management	30	\$200,000,000	N/A
Project/Program Management	7	\$630,000,000	N/A

Categorize your firm's class for work during the last ten years by project type. Examples of project types include Educational, Commercial, Industrial, Residential, Health Care, Correctional and Judicial Facilities. Work may also be categorized as planning, civil sitework, renovation/alteration, architectural barrier removal, fire alarm system, etc.

Note: Figures are estimates.

PRESENT/COMPLETED PROJECTS IN WHICH YOUR FIRM IS/WAS DESIGNATED THE PRIME CONSULTANT (BY TYPE)

(LIST A MAXIMUM OF 10 PROJECTS FOR EACH DISCIPLINE/TYPE OF WORK BEING APPLIED FOR. LIST PROJECTS THAT REFLECT YOUR ABILITY TO PROVIDE QUALITY WORK FOR YOUR REQUESTED PROJECTS.)

TYPES OF WORK

DS.1) COMPUTER ENGINEERING (GIS MAPPING / PROGRAMMING SERVICES)

YEAR	NAME AND LOCATION OF THE PROJECT	NAME OF LEAD DESIGNER	NAME, ADDRESS, PHONE & FAX NO. OF THE OWNER	ESTIMATED CONST. COST (\$)	DURATION FOR DESIGN (MONTHS)	% COMPLETED	
						DESIGN	CONST.
DS.1) COMPUTER ENGINEERING (GIS MAPPING / PROGRAMMING SERVICES)							
2023	Honolulu Harbor Strategic Optimization Master Plan Added Services: Historic Resources GIS Geodatabase Oahu, HI	James Niermann, AICP, LEED AP BD+C	State of Hawaii Department of Transportation Harbors Division 79 South Nimitz Highway Honolulu, HI 96813 (Dean Watase, (808) 587-1883)	\$40,000 (fee)	Ongoing	5	N/A
2022	NPDES Storm Water City System Inspection and Assessment Oahu, HI	Michael Okamoto, PE, LEED AP	City and County of Honolulu Department of Facility Maintenance 1000 Uluohia Street, Suite 212 Kapolei, HI 96707 (Randall Wakumoto, (808) 768-3242)	\$2,130,000 (fee)	Ongoing	80	N/A
2019	Hawaii Disaster Recovery Assistance Workgroup (HI-DRAW) Oahu and Kauai, HI	Walter Chong, PE	State of Hawaii Research Corporation of the University of Hawaii (RCUH) 2800 Woodlawn Drive, Suite 200 Honolulu, HI 96822 (Nathan Lee, (808) 956-0604)	\$910,000 (fee)	Ongoing	39	N/A
2017	Honolulu Harbor Strategic Optimization Master Plan Oahu, HI	James Niermann, AICP, LEED AP BD+C	State of Hawaii Department of Transportation Harbors Division 79 South Nimitz Highway Honolulu, HI 96813 (Dean Watase, (808) 587-1883)	\$4,500,000 (fee)	48	100	N/A
2015	NPDES Stormwater Inspection Assessment Oahu, HI	Michael Okamoto, PE, LEED AP	City and County of Honolulu Department of Environmental Services 1000 Uluohia Street Kapolei, HI 96707 (Randall Wakumoto, (808) 768-3243)	\$3,075,000 (fee)	9	100	N/A
2013	Kahului Airport Master Plan Update Maui, HI	Brian Takeda	State of Hawaii Department of Transportation Airports Division 400 Rodgers Boulevard, Suite 700 Honolulu, HI 96819 (Lynette Kawaoka, (808) 838-8818)	\$2,200,000 (fee)	48	100	N/A
2012	Oahu Landfill Project Oahu, HI	Brian Takeda	City and County of Honolulu Department of Environmental Services 650 South King Street Honolulu, HI 96813 (Lori Kahikina, now at HART, (808) 768-6262)	\$1,000,000 (fee)	18	100	100

PRESENT/COMPLETED PROJECTS IN WHICH YOUR FIRM IS/WAS DESIGNATED THE PRIME CONSULTANT (BY TYPE)

(LIST A MAXIMUM OF 10 PROJECTS FOR EACH DISCIPLINE/TYPE OF WORK BEING APPLIED FOR. LIST PROJECTS THAT REFLECT YOUR ABILITY TO PROVIDE QUALITY WORK FOR YOUR REQUESTED PROJECTS.)

TYPES OF WORK

DS.1) COMPUTER ENGINEERING (GIS MAPPING / PROGRAMMING SERVICES)

YEAR	NAME AND LOCATION OF THE PROJECT	NAME OF LEAD DESIGNER	NAME, ADDRESS, PHONE & FAX NO. OF THE OWNER	ESTIMATED CONST. COST (\$)	DURATION FOR DESIGN (MONTHS)	% COMPLETED	
						DESIGN	CONST.
2012	Kamehameha Schools, South Hilo Farms Soil and Water Conservation Plans (GIS Mapping) Hawaii Island, HI	James Niermann, AICP, LEED AP BD+C	Kamehameha Schools 101 Aupuni Street, Suite 102 Hilo, HI 96720 (Marissa Harman, (808) 776-7527)	\$90,000 (fee)	6	100	N/A
2010	South Kona Flood Study Hawaii Island, HI	Jason Tateishi, PE	U.S. Army Engineer District, Honolulu Engineering and Construction Division Engineering Services Branch Building 230, Room 202 Fort Shafter, HI 96858 (Michael Wong, (808) 835-4138)	\$734,000 (fee)	18	100	N/A
2009	Stream Diversion Study Statewide, HI	Brian Takeda	State of Hawaii Department of Land and Natural Resources Commission on Water Resource Management P.O. Box 373 Honolulu, HI 96809 (Dean Uyeno, (808) 587-0234)	\$635,000 (fee)	6	100	N/A

PRESENT/COMPLETED PROJECTS IN WHICH YOUR FIRM IS/WAS ASSOCIATED WITH OTHERS (BY TYPE)

(LIST A MAXIMUM OF 10 PROJECTS FOR EACH DISCIPLINE/TYPE OF WORK BEING APPLIED FOR. LIST PROJECTS THAT REFLECT YOUR ABILITY TO PROVIDE QUALITY WORK FOR YOUR REQUESTED PROJECTS.)

TYPES OF WORK

DS.1) COMPUTER ENGINEERING (GIS MAPPING / PROGRAMMING SERVICES)

YEAR	NAME AND LOCATION OF THE PROJECT	NAME, ADDRESS, PHONE & FAX NO. OF THE OWNER	ESTIMATED CONSTRUCTION COST		DURATION FOR DESIGN (MONTHS)	PRIME FIRM ASSOCIATED WITH	% COMPLETED	
			ENTIRE PROJECT	YOUR FIRM'S WORK			DESIGN	CONST.
DS.1) COMPUTER ENGINEERING (GIS MAPPING / PROGRAMMING SERVICES)								
2020	Environmental Engineering Management at Daniel K. Inouye International Airport, Storm Drainage Network Mapping Oahu, HI GIS	State of Hawaii Department of Transportation Airports Division 400 Rodgers Boulevard, Suite 700 Honolulu, Hawaii 96817 ((808) 838-8656)	N/A	\$581,000 (fee)	N/A	EnviroServices & Training Center, LLC	N/A	N/A
2018	Statewide Airport Layout Plans, Phase 2 Statewide, HI GIS	State of Hawaii Department of Transportation Airports Division 400 Rodgers Boulevard, Suite 700 Honolulu, HI 96819 (Herman Tuiolosega, (808) 838-8810)	N/A	\$1,825,340 (fee)	N/A	EKNA Services, Inc.	N/A	N/A
2004	Controlled Aerial Survey / Digitized Orthophotography Mapping with Surveying Services, Multipurpose Combined Arms Live Range Complex and Multipurpose Vehicle Qualification Range, McCarthy Flats, Schofield Barracks Oahu, HI (GIS)	Department of the Army U.S. Army Corps of Engineers Pacific Ocean Division Building 230 Fort Shafter, HI 96858 ((808) 835-4004)	N/A	\$122,000 (fee)	N/A	ParEn, Inc. dba Park Engineering	N/A	N/A

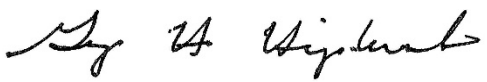
Explain firm's individual project assignment, project management structure, project execution (work flow and responsibilities) and quality control process. In the event the spaces provided on this form are not sufficient for entries, or if you wish to furnish additional information, it may be inserted here or on separate sheets, with appropriate references.

"ATTACHMENT 1" following this page provides the requested information.

Please see also:

Tab 10 R. M. Towill Corporation, Statement of Qualifications

As of this date June 29, 2023 the foregoing is a true statement of facts.

NAME OF FIRM OR INDIVIDUAL SUBMITTING QUESTIONNAIRE	TYPE NAME AND TITLE OF PERSON SIGNING	SIGNATURE
R. M. Towill Corporation	Greg H. Hiyakumoto, PE, LEED AP, ENV SP President	

NOTE: It is to a firm's advantage to maintain its experience record on a current basis. This may be accomplished by periodically forwarding current data to DAGS.

Attachment 1



RMTC as Prime Consultant

The R. M. Towill Corporation (RMTC) frequently serves as Prime Consultant for major design projects and/or Indefinite Delivery (open-end) contracts involving multi-disciplinary services. In this role, RMTC provides a single point of contact for the client on contractual issues and assumes full responsibility for all aspects of project execution, including budget, timeliness, and quality. RMTC's approach to project management is highlighted below.

Individual Project Assignment

RMTC's practice is to assign qualified personnel to accomplish specific project tasks. Our organization is structured to provide multiple levels for support and reviews to ensure consistent production of quality work. RMTC also promotes the professional development of staff members.

RMTC Project Management Structure

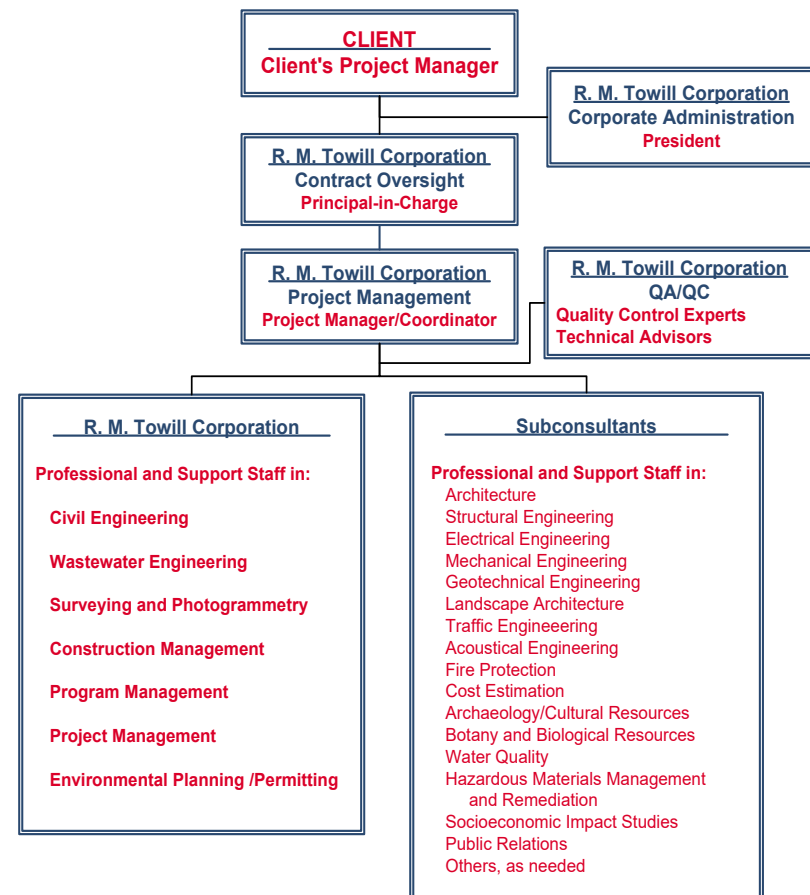
All of RMTC's projects call for a management structure that is both *responsible* and *responsive to the client's needs and expectations*. The typical project organizational chart to the right shows the normal structure of management reporting for projects in which RMTC is the prime consultant. The **client and the client's project manager** are at the top of the hierarchy. The role of each additional management position is discussed briefly below.

Though not directly involved with project execution, responsibility for the overall performance of the company falls upon the **President**. As such, final approval of major courses of action regarding the commitment of company resources, teaming arrangements, and contractual issues are made at this level.

Responsibility for individual projects begins near the top of the organizational structure with the **Principal-in-Charge** (PIC). PICs, as officers of the company, are responsible for ensuring that all contractual obligations are met through the proper allocation of company resources. They are readily available to the team for consultation on technical or contract-related issues.

RMTC's **Project Managers** and **Project Coordinators** (PMs/PCs) are experts in their disciplines and seasoned project leaders. PMs/PCs serve as the client's primary point of contact and carry the day-to-day responsibility for planning and directing project work tasks. They manage the scope of work of both internal team members and specialty subconsultants, create and continually update the electronic project schedule, and monitor the team's progress toward the completion of deliverables.

TYPICAL PROJECT ORGANIZATIONAL CHART
R. M. TOWILL CORPORATION



Internal and External Coordination

Key to a successful project is clear and open communication and efficient coordination between all team members. To monitor project progress and resolve any issues that arise, the project manager conducts regular team meetings. Periodic client meetings are also held to review project status and resolve questions. Coordination with government reviewers and agencies is conducted on a regular basis during project submittals. Obtaining a clear understanding of agency intentions and requirements saves time and reduces revisions.

Coordination with Subconsultants

RMTC has successfully managed many large projects with subconsultants from multiple disciplines. Our typical coordination process begins with a careful team member selection procedure in which we evaluate the subconsultants' relevant expertise, past performance, ability to produce sound designs, responsiveness to deadlines and requests, and flexibility in dealing with cost and site-specific situations.

To ensure there are no gaps in overall project delivery, the PM/PC sets up the overall work scope for each subconsultant, then meets with each to define the details of their project contributions. During the design process, the PM/PC conducts an initial team partnering meeting that is followed by regular team coordination meetings, individual subconsultant meetings, site excursions, sharing of drawings via RMTC's FTP site, and telephone and email correspondence. To achieve and maintain clear lines of communication and understanding of design requirements, subconsultant participation in client and user meetings and activities is mandatory.

Project Execution (Workflow and Responsibilities)

The following time-tested methods ensure that all work products are correct, designs are cost-effective, and delivery of work products will be on schedule.

- **Project Initiation Meeting.** The scope of work, project schedule and assumptions are coordinated among the RMTC staff and team members. Goals and objectives are clarified and commitments of manpower and resources are made at this meeting.

- **Work Plan.** The Project Manager develops a detailed, electronic project work plan that covers all aspects of the project and identifies critical path items and potential issues that may affect the project. The work plan is regularly updated to include revised assumptions and criteria. An efficient and comprehensive work plan greatly reduces design omissions and errors by calling attention to issues early in the planning and design process as well as keeps the project on schedule.
- **Scheduling.** The PM/PC develops a detailed work schedule that outlines the various in-house and team member tasks along with all milestone deadlines and design pre-requisites. Management of the team to meet the overall schedule allows time for implementation of proper quality management procedures. It is therefore a high priority for RMTC to control any deviations from the schedule, unless predicated by a change in project scope or directed by the client.
- **Guidance and Training.** Key staff and team members are encouraged to attend training seminars and classes to keep up with new technologies, regulations, and industry products. RMTC adheres to the principle that proper training and guidance is key to being technically proficient, innovative, efficient and, most importantly, delivering high-quality products to the client. Junior staff members at RMTC are trained in fundamental design procedures through close supervision.
- **Technical Review.** Each design undergoes a series of reviews by the Project Manager and one or more of their peers. The Project Manager ensures that each project deliverable matches contractual requirements.
- **Project Synopsis.** At the end of each project, a review is made by in-house and consultant team members to identify lessons-learned and ways to improve service to the client. Insights from these sessions are invaluable in setting up work plans for future projects and showing less experienced professionals how problems are solved to complete projects successfully.

Quality Control Process

Responsibility for design quality falls on every member of our design team. Consistency is accomplished through documented processes such as written technical standards, checklists, and forms. Our design team is selected, structured, and continually refocused to ensure preparation of sound designs



and products. RMTC's project managers and coordinators, each with over 20 years of experience, develop the project approach and design concepts. Each concept is then further developed by senior engineers and design staff. The PMs operate in a "hands-on" fashion with full control of the design at all times. A quality control expert who is independent of the design team, qualified in the discipline, and experienced with the type of work, performs quality control reviews at significant milestones. These reviews are strategically timed to maximize efficiency and minimize rework. Manager reviews are performed prior to each scheduled submittal to check for design conflicts, omissions and inadequacies, potential cost savings, and potential permitting, land use or environmental triggers. Prior to signing and stamping plans, the PMs perform a final documents check.

Technological Capabilities

Computer-Aided Drafting (CAD) Equipment

- Autodesk Civil 3D 2022
- Autodesk Map 2022
- Autodesk Navisworks Manage 2022
- Autodesk Infraworks 2022
- Autodesk 3ds Max Design 2022
- Autodesk Raster Design 2022
- Autodesk Recap Pro 2022
- Autodesk Revit MEP 2022
- Autodesk Plant Design 2022
- Autodesk Vehicle Tracking 2022
- Autodesk River Analysis 2022
- Autodesk BIM 360 Design
- Bentley Microstation, XM Edition
- Bentley InRoads, SelectCAD
- Bentley WaterCAD
- Bentley Siteops
- Bentley SewerGEMS
- Leica Cyclone 9.4
- Leica Cyclone Register 360
- Leica CloudWorx

Equipment Resources

<i>Workstations</i>	96 in use / 10 spare
<i>Microstation Workstations</i>	2
<i>Network</i>	1
<i>Network Servers with Backup</i>	9 Physical 26 Virtual

<i>Photogrammetry Equipment</i>	▪ Wild Analytical BC3 Stereoplotter
<i>Surveying Equipment</i>	▪ 1 Leica Geosystems RTC 360 Laser Scanner (3D)
	▪ 2 GPS Total Station System
	▪ 1 GPS Total Station 4800
	▪ 3 Nikon DTM-522 Total Station
	▪ 3 Pentax PTS-V3, R-123, and PTS-605 Total Station
	▪ 3 TDS Ranger 300 Data Collectors
	▪ 3 TDS Recon Data Collectors
	▪ 1 Trimble DiNi Digital Level
	▪ 1 Trimble R10 GNSS System
	▪ 4 App-Tek OdaLog
	▪ 1 LRSS Portable 2-Point Monitor
	▪ 1 Teledyne Isco Portable Sampler 6712
	▪ 1 YSI 556 MPS
	▪ 1 Flexim Flexus F601
	▪ 1 Dwyer PATH Super Kit
	▪ 1 EnviroSight Quickview Zoom Inspection Camera

Wastewater Equipment

Software for Geographic Information Systems

- ArcGIS 10.8
- 3D Analyst and Spatial Analyst Extensions for ArcGIS

Software for Design and Surveying

<i>Traffic</i>	▪ Transoft AutoTurn 7.0
	▪ Transoft ParkCAD 4.0
	▪ HSC - Highway Capacity Manual Software
<i>Drainage</i>	▪ Hydraflow Extensions for AutoCAD Civil 3D
	▪ Storm and Sanitary Analysis for Civil 3D



Drainage (cont.)

- FHWA HY 8 Culvert Hydraulic Analysis Program
- FHWA Hydraulic Toolbox
- Watershed Modeling System (WMS)
- Surface-Water Modeling System (SMS)
- Climate Change Adaption Tools
- CMIP Processing Tool Version 2.1
- HEC-HMS / HEC-1 - Army Corps of Engineers Hydrologic Package
- HEC-RAS / HEC-2 - Army Corps of Engineers Flood Plain Hydraulics Package
- NRCS WinTR-20
- NRCS WinTR-55
- Cityworks
- WaterCAD

Water

Airfields

Wastewater

Specification Writing

Cost Estimating

*Surveying and
Photogrammetry*

- Transoft AviPLAN Pro 2.3
- EnviroSim BioWin 3.0
- Visual Hydraulics 4.1
- Engineered Software PIPE-FLO Pro 12
- SewerGEMS
- SPECSINTACT
- MCACES-Second Generation (MII) and TRACES
- Global Positioning System (GPS) Survey Software
- Dual Frequency GPS
- GPS-Driven Single Beam and Multi-Beam
- Aerial Photo Control Using Airborne GPS Combined with Inertial Measurement Unit (IMU)

*Presentation and
Graphics*

MS PowerPoint; Corel Draw; MS Visio; Adobe Creative Cloud (Photoshop, Lightroom, Animate, Illustrator, Muse, Fuse, Audition, Bridge, InCopy, Prelude, Slate, Scout, SpeedGrade, InDesign, Acrobat Pro DC, Dreamweaver, After Effects, Premiere); Camtasia Studio 8; Snagit 12); Bluebeam; Autodesk Recap

File Sharing

DrChecks/Projet; Autodesk BIM 360 Docs; Autodesk Vault Professional 2019

Production and General Use

Project Management

MS Project; Primavera

Spreadsheets

MS Excel

Word Processing

MS Word; Corel WordPerfect

Database

MS Access; Deltek



NAME HIYAKUMOTO, GREG, PE	TITLE AND POSITION President	YEARS WITH FIRM 38
MAJOR RESPONSIBILITIES WITH THIS FIRM Oversight of five (5) professional disciplines and administrative staff.		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: None	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

FIRM:	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

NAME YAMAMOTO, JAMES, PE	TITLE AND POSITION Vice President	YEARS WITH FIRM 44
MAJOR RESPONSIBILITIES WITH THIS FIRM Vice President and Project Manager in RMTc's Civil Engineering Department.		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: None	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

FIRM:	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

NAME LAM, COLLINS, PE	TITLE AND POSITION Vice President	YEARS WITH FIRM 20
MAJOR RESPONSIBILITIES WITH THIS FIRM Vice President and Manager of RMTC's Civil Engineering Department		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: City and County of Honolulu Department of Design and Construction	DATE FROM: 01/09 TO: 12/11	FIRM: Island of Lanai Water and Wastewater Companies	DATE FROM: 01/04 TO: 05/05
ADDRESS: 650 South King Street, 11 th Floor, Honolulu, HI 96813		ADDRESS: P. O. Box 630310, Lanai City, HI 96763	
JOB TITLE: Deputy Director then Director		JOB TITLE: Interim Utilities Director	
SUPERVISOR'S NAME AND TITLE: Peter B. Carlisle, Mayor / Mufi Hannemann, Mayor		SUPERVISOR'S NAME AND TITLE: Gerrit Cormany, President	
MAJOR DUTIES: Oversee department's Capital Improvement Program. Responsible for the planning, design and construction of the City's infrastructure and for the daily operations of 250 engineers, architects and construction managers.		MAJOR DUTIES: Managed day-to-day operations of the island-wide water and wastewater systems. Developed Capital Improvement plans for the wastewater and water companies.	

FIRM: Clayton Group Services (now Bureau Veritas)	DATE FROM: 05/97 TO: 10/00	FIRM:	DATE FROM: TO:
ADDRESS: 841 Bishop Street, Honolulu, HI 96813		ADDRESS:	
JOB TITLE: Environmental Project Manager		JOB TITLE:	
SUPERVISOR'S NAME AND TITLE: Dan Ford, Owner		SUPERVISOR'S NAME AND TITLE:	
MAJOR DUTIES: Managed and coordinated the remediation of impacted soils and groundwater.		MAJOR DUTIES:	

NAME TANOUE, DAVID	TITLE AND POSITION Vice President	YEARS WITH FIRM 11
MAJOR RESPONSIBILITIES WITH THIS FIRM Vice President and Manager of RMTTC's Planning and Surveying Departments		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: City and County of Honolulu Department of Planning and Permitting	DATE FROM: 01/05 TO: 09/12	FIRM: City and County of Honolulu Department of Corporation Counsel	DATE FROM: 04/01 TO: 12/04
ADDRESS: 650 South King Street, 7 th Floor, Honolulu, HI 96813		ADDRESS: 530 South King Street, Room 110, Honolulu, HI 96813	
JOB TITLE: Deputy Director then Director		JOB TITLE: Deputy Corporation Counsel – Land Use & Development	
SUPERVISOR'S NAME AND TITLE: Peter B. Carlisle, Mayor		SUPERVISOR'S NAME AND TITLE: David Z. Arakawa, Corporation Counsel	
MAJOR DUTIES: Provided leadership, administration and management for the department's 300 employees in the areas relating to long range planning, building and construction, and land use and development.		MAJOR DUTIES: Senior Deputy responsible for providing legal counsel to the Department of Planning and Permitting. Represented City before the Zoning Board of appeals and Building Board of Appeals.	

FIRM: AM Partners, Inc.	DATE FROM: 09/97 TO: 04/01	FIRM: Law Offices of Michael F. McCarthy	DATE FROM: 04/93 TO: 09/97
ADDRESS: 711 Queen Street, Honolulu, HI 96813		ADDRESS: 900 Fort Street, Suite 1500, Pioneer Plaza, Honolulu, HI 96813	
JOB TITLE: General Counsel and Director of Contracting		JOB TITLE: Counsel	
SUPERVISOR'S NAME AND TITLE: Charles Lau, President		SUPERVISOR'S NAME AND TITLE: Michael McCarthy, President	
MAJOR DUTIES: Provided leadership, direction and management of all legal and administrative matters relating to the firm on corporate and project levels.		MAJOR DUTIES: Business litigation.	

NAME LUKE, CRAIG, PE	TITLE AND POSITION Vice President	YEARS WITH FIRM 37
MAJOR RESPONSIBILITIES WITH THIS FIRM Vice President and Senior Project Manager in RMTC's Civil Engineering Department.		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: None	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

FIRM:	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

NAME SPENCER, ROBERT	TITLE AND POSITION Treasurer	YEARS WITH FIRM 22
MAJOR RESPONSIBILITIES WITH THIS FIRM Treasurer and Manager of RMTc's Accounting Department.		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: First Hawaiian Bank	DATE FROM: TO: 08/99 09/01	FIRM: First Hawaiian Bank	DATE FROM: TO: 02/96 08/99
ADDRESS: 1420 Liliha Street, Honolulu, HI 96817		ADDRESS: 1420 Liliha Street, Honolulu, HI 96817	
JOB TITLE: Bank Card Department - Loan Representative		JOB TITLE: Loan Representative	
SUPERVISOR'S NAME AND TITLE: Henry Fujimoto, Credit Officer		SUPERVISOR'S NAME AND TITLE: Glenn Goya, Vice President and Area Manager	
MAJOR DUTIES: Credit analysis and approval of bank card products, account review to minimize bank's risk exposure.		MAJOR DUTIES: Credit analysis on consumer loans, lines of credit, sales of bank products and customer service.	

FIRM: First Hawaiian Bank	DATE FROM: TO: 07/94 02/96	FIRM: First Hawaiian Bank	DATE FROM: TO: 08/92 07/94
ADDRESS: 1420 Liliha Street, Honolulu, HI 96817		ADDRESS: 1420 Liliha Street, Honolulu, HI 96817	
JOB TITLE: Management Trainee		JOB TITLE: Account Service Representative	
SUPERVISOR'S NAME AND TITLE: Glenda Chow, Assistant Vice President		SUPERVISOR'S NAME AND TITLE: Kehaulani Chambliss, Collections Supervisor	
MAJOR DUTIES: Training in various program areas of the bank.		MAJOR DUTIES: Collection of direct and indirect consumer loans and lines of credit, file maintenance and customer service.	

NAME YUKUMOTO, KYLE, PE	TITLE AND POSITION Vice President	YEARS WITH FIRM 28
MAJOR RESPONSIBILITIES WITH THIS FIRM Vice President and Manager of RMTTC's Wastewater Department		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: None	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

FIRM:	FIRM:
ADDRESS:	ADDRESS:
JOB TITLE:	JOB TITLE:
SUPERVISOR'S NAME AND TITLE:	SUPERVISOR'S NAME AND TITLE:
MAJOR DUTIES:	MAJOR DUTIES:

NAME INOUE, MICHAEL	TITLE AND POSITION Secretary	YEARS WITH FIRM 38
MAJOR RESPONSIBILITIES WITH THIS FIRM Secretary and Manager of RMTC's Construction Management Department		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM: Keahole Associates, Inc	DATE FROM: TO: 1997 2002	FIRM: R. M. Towill Corporation	DATE FROM: TO: 1987 1997
ADDRESS: 73-200 Kupipi Street, Kailua-Kona, HI 96740		ADDRESS: 2024 North King Street, Suite 200, Honolulu, HI 96819	
JOB TITLE: Construction Engineer		JOB TITLE: Construction Engineer	
SUPERVISOR'S NAME AND TITLE: Frank Sanpei		SUPERVISOR'S NAME AND TITLE: Wallace Dung / Richard Eber	
MAJOR DUTIES: Providing construction management services for various construction project at the Keahole Kona International Airport.		MAJOR DUTIES: Providing construction management services for various construction projects on Oahu and the Big Island of Hawaii.	

FIRM:	DATE FROM: TO:	FIRM:	DATE FROM: TO:
ADDRESS:		ADDRESS:	
JOB TITLE:		JOB TITLE:	
SUPERVISOR'S NAME AND TITLE:		SUPERVISOR'S NAME AND TITLE:	
MAJOR DUTIES:		MAJOR DUTIES:	



R. M. TOWILL CORPORATION

SINCE 1930



2023-2024 Statement of Qualifications

Contact: Greg Hiyakumoto, President gregh@rmtowill.com

2024 N. King Street, Suite 200 Honolulu, HI 96819-3494 www.rmtowill.com Tel: 808 842-1133 Fax: 808 842-1937
Civil Engineering • Wastewater Engineering • Surveying & Mapping • Planning & Permitting • Construction Management



R. M. TOWILL CORPORATION
SINCE 1930

FIRM INTRODUCTION

Serving Hawaii since 1930. With 125 employees, the R. M. Towill Corporation (RMTC) is one of the largest locally owned engineering firms in the State of Hawaii. The firm's integrated services include civil engineering, wastewater engineering, surveying and photogrammetry, construction management, program management, land planning and permitting, and geographic information systems. RMTC's main office is located in Honolulu, Oahu and since 1979 we have maintained a branch office in Kailua-Kona on the island of Hawaii.

Dedicated to our clients' needs. Throughout the past nine decades, RMTC has serviced various federal, state and county agencies as well as private sector clients, each with their own set of objectives, requirements, concerns, and constraints. We make it a part of our business to understand the unique situation of each project we manage so that we can craft a comprehensive approach to the assignment and ultimately deliver effective, practical, and timely solutions.

A diverse staff of industry experts. Our large, diverse staff of licensed professional civil engineers, planners, environmental engineers, surveyors, certified construction managers and large technical pool provides RMTC with the flexibility to assign qualified personnel to various projects and to complete them in a timely manner, whether it be a typical project timeframe or fast-tracked assignment. In addition, RMTC encourages training across disciplines to promote continual professional growth of our people and technical diversity within the organization.

Unparalleled project experience. RMTC has managed a multitude of project types, varying greatly in size, scope, complexity, and cost. Throughout this document are examples of projects we have completed, categorized by field of service. Many of these assignments have involved multiple departments within our firm and have required the effective coordination of specialty subconsultants. Furthermore, we are familiar and well-experienced in facilitating projects that require interagency agreements on technical and institutional issues.

Experience throughout the Pacific Rim. Our experience extends well beyond the State of Hawaii into areas such as Diego Garcia, the Philippines, Japan, Okinawa, Korea, Mexico, Guam, Saipan, Tinian, Kwajalein, Palau, American Samoa, Johnston Atoll, Palmyra, Yap, and the Seychelles, where we have proven our ability to adapt to local conditions, customs, and culture to effectively complete our projects.

This **Statement of Qualifications** provides an overview of the key elements of RMTC's practice, professional staff, and past experience.

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CIVIL ENGINEERING

Highway and Roadway Design

RMTC has designed over 300 miles of roadways in Hawaii and the Pacific for county, state, federal, and private sector clients. Our designs have helped to relieve traffic congestion, provided added capacity for new developments and improved roadway safety. RMTC has also served as design team leader for the replacement of many roadway bridges throughout the state.

Projects / Highway and Roadway Design

“Legacy” Projects

- Kualakai Parkway (North-South Road), Phases 1A, 1B and 1C, Oahu (2005-2010) (*right top*)
- Palau Compact Road, Package D, Island of Babeldaob, Republic of Palau (1997-2007) (*see award plaques, right bottom*)
- Interstate Route H-1 Waimalu Viaduct Widening, Westbound Direction, Kaonohi Street Overcrossing to Pearl City Off-Ramp, Oahu (2001-2007)

Additional Projects

- Kamehameha Highway, Kaipapau Stream Bridge Replacement, Oahu (ongoing)
- Farrington Highway, Replacement of Makaha Bridges 3 and 3A, Oahu (ongoing)
- Interstate Route H-1 Shoulder Work and PCC Pavement Rehabilitation, Oahu (2019, Design-Build)
- Kaunualii Highway Widening, Lihue Mill Bridge to Rice Street, Kauai (2015, Design-Build)
- Kamehameha Highway Improvements, Lanikuhana Avenue to Ka Uka Boulevard, Oahu (2011)
- Kapolei Parkway Extension, Phases 8A, 8B and 8C, Oahu (2010)
- Lauwiliwili Street Extension, Kalaeloa to Hanua, Oahu (2010)
- Opakapaka Street Extension, Kalaeloa to Hanua, Oahu (2010)
- Farrington Highway Safety Improvements, Nanakuli to Makaha, Oahu (2006)
- Keoneula Boulevard Extension, Oahu (2006)
- Likelike Highway, Wilson Tunnel and Approach Improvements, Oahu (2005)



RMTC designed the \$170-million, three-phase North-South Road for the State Department of Transportation in Kapolei, Oahu.



In 2009, RMTC was honored by two national engineering organizations for surveying and design work on the \$130-million, 53-mile Palau Compact Road in the Republic of Palau. Awards included **National Finalist and Excellence Award recognition** from the American Council of Engineering Companies (ACEC) and **Outstanding Major Project of the Year** from U.S. Region 8 of the American Society of Civil Engineers.

Mass Transit

RMTC engineers, planners and surveyors have been involved in three phases of planning for mass transit facilities on Oahu for over a period of two decades. The firm was subconsultant to PB Americas, Inc., to conduct preliminary engineering and surveying for the rail mass transit facilities to be constructed on Oahu, a project with an estimated construction cost of \$10 billion. RMTC currently has active projects for surveying and engineering for the Honolulu Rail Transit Project.

Subdivision and Housing

RMTC has the skill and experience to guide clients from project conception through design and construction. For projects varying in both size and complexity, RMTC has completed subdivision and housing utilities and sitework design on the islands of Oahu, Maui, Kauai, Hawaii, and Lanai.

RMTC's work on master planned communities throughout the state has involved thousands of acres and multiple years of planning and entitlements, followed by surveying, design and services during construction.

Multi-Disciplinary, Multi-Year Work Supporting New Master Planned Communities

- Hoopili, Oahu
- Ocean Pointe, Oahu
- Villages of Kapolei, Oahu
- Ewa Villages Revitalization, Oahu
- West Loch, Oahu
- Kukuiula, Kauai
- Manele and Koele, Lanai
- Aina Lea, Hawaii
- Hokulia, Hawaii

Additional Subdivision and Housing Projects

- Gentry Homes, Industrial Subdivision, Oahu (ongoing)
- Pauoa Valley Preserve Cluster Housing, Oahu (2014)
- Franciscan Vistas Ewa, Phases I and II, Oahu (2011)
- Kaloko Heights, Hawaii (2009)
- Puainako Heights, Hawaii (2008)

- Makana Kai, Wehilani at Waikoloa, Hawaii (2008)
- Waikoloa Highlands, Hawaii (2007)
- Nohona at Kapolei, Oahu (2006)
- Halsey Terrace and Radford Terrace, Oahu (2003-2006)
- Ukumehame Agricultural Subdivision, Maui (2006)
- Pearl City Industrial Park Subdivision, Oahu (2005)
- Waikoloa Heights, Hawaii (2005)

Harbors and Port Facilities

RMTC's extensive, multi-disciplinary experience with port facility projects involves over \$500 million in harbor infrastructure design throughout the state. The firm also has been engaged by harbor users to plan and design major container yard reconfigurations, pavement repair and reconstruction, pier and terminal improvements, and other infrastructure and utility upgrades in Hawaii and the Pacific Region. RMTC recently completed the design of the largest capital improvement project in the history of Hawaii's commercial harbor system (Kapalama Container Terminal Yard).

Projects / Harbors and Port Facilities

- Kapalama Container Terminal Yard, Honolulu Harbor, Oahu (2020)
- Pier 24-28 Utility Improvements, Honolulu Harbor, Oahu (2020)
- Nawiliwili Harbor Improvements, Kauai (2020)



RMTC has designed over \$500 million in harbor infrastructure throughout the State of Hawaii.

- Pier 29 Container Yard Reconstruction for Aloha Cargo Transport, Honolulu Harbor, Oahu (2012)
- Pier 2A Shed Demolition and Container Yard Improvements, Kawaihae Harbor, Hawaii (2009)
- Pier 39 and 40 Young Brothers Yard Reconfiguration, Honolulu Harbor, Oahu (2007)
- Matson Terminals Annex Yard, Honolulu, Oahu (2007)
- Pier 2 Cruise Terminal, Construction Management, Honolulu, Oahu (2006)
- Puunene Container Yard Reconstruction, Kahului Harbor, Maui (2005)
- Pier 51B Horizon Lines Container Yard Reconstruction, Honolulu, Oahu (2005)
- Reconstruction of Matson Container Yard, Piers 51C- 53, Honolulu, Oahu (2004)
- Piers 24 to 29 Auto Lot Improvements, Honolulu, Oahu (2004)
- Pier 19 Ferry Terminal, Construction Management, Honolulu, Oahu (2004)
- Pier 3 Young Brothers Container Yard Reconstruction, Kahului Harbor, Maui (2002)
- Pier 1C Expansion, Kahului Harbor, Maui (2002)

Site Planning and Design

Site planning and design remains a core competency of our civil engineering practice. RMTC's engineers are often called upon to design utilities, roadways, parking lots, and other civil site improvements for new construction and renovation of existing facilities. The firm has been involved in many major building efforts for public agencies and private clients, including design-bid-build and design-build projects.

Projects / Site Planning and Design

- \$170-million Kapalama Container Terminal Yard, Honolulu Harbor, Oahu (Design-2017)
- \$22-million Central Maui Regional Sports Complex, Maui (2016)
- \$55-million Interisland Maintenance Terminal Site Preparation, Honolulu International Airport (2010, Design-Build)
- \$3-million (sitework only) Safeway Store at Kapahulu, Oahu (2008)



RMTC engineers have been involved in the preliminary engineering and design of site infrastructure for numerous projects associated with the \$1.7 billion Honolulu International Airport Terminal Modernization program.

- \$50-million Redevelopment of Navy Privatized Housing, Oahu (2007)
- \$70-million Frear Hall Replacement, University of Hawaii at Manoa, Oahu (LEED-certified Silver) (2006) (*next page*)
- \$21-million Haleakala Mirror Coating Facility, Maui Space Surveillance Site, Maui (2005)
- \$25-million Keoneula Elementary School, Ocean Pointe, Oahu (2004)
- \$25-million Medical/Dental Clinic Replacement, Andersen Air Force Base, Territory of Guam (2003)
- \$50-million NELHA Gateway Distributed Energy Resource Center, Kailua-Kona, Hawaii (LEED-certified Platinum) (2002)
- \$15-million Honolulu Advertiser Production and Distribution Facility, Oahu (2000)
- \$70-million Kapolei High School, Oahu (2000)

ADA Compliance

RMTC has played a major role in assisting state and county agencies with Americans with Disabilities Act (ADA) compliance improvements for a wide range of public facilities including schools, playgrounds, parking lots, roadways, and pedestrian facilities. For the State of Hawaii, Department of Transportation, RMTC served as Master A/E for the Pedestrian Facilities and ADA Compliance program. This effort required management of 12 concurrent projects statewide and design by six individual civil engineering firms. Design and construction of approximately 1,600 curb ramps were completed within 15 months to meet a federal consent decree deadline.

Projects / ADA Compliance

- Curb Ramps at Various Locations for the City and County of Honolulu, Oahu (2012)
- Farrington Highway Safety Improvements, Nanakuli to Makaha, Oahu (2006)

- Preassessment Services for Curb Ramps at Various Locations, Oahu (2004)
- Master A-E for Pedestrian Facilities and ADA Compliance, Oahu, Hawaii, Maui, Molokai and Kauai, Hawaii (2004)
- Kuhio Beach Improvements, Kalakaua Avenue, Oahu (2000)
- Kakaako Improvements District #9, Oahu (2004)
- Kamehameha Highway Resurfacing, Waiahole Valley Road to Crouching Lion Inn, Oahu (2001)

RMTC has also designed ADA *playground accessibility* improvements at various public schools on Oahu.

Leadership in Energy and Environmental Design (LEED)

RMTC's civil engineers and planners continually work with clients and architectural firms seeking LEED building certification during the pre-design, design, and construction phases. Key staff members have already become LEED Accredited Professionals to efficiently identify and fulfill LEED requirements for credits relating to civil engineering.



RMTC designed the civil sitework and obtained agency approvals for the construction of the new Frear Hall dormitory at the University of Hawaii at Manoa. It is certified LEED silver.

Infrastructure Master Plans

Comprehensive infrastructure master plans completed by RMTC range from islandwide infrastructure analyses, to redevelopment of military bases, to development of vacant lands.

Projects / Infrastructure Master Plans

- Miki Basin Industrial Master Plan, Lanai (ongoing)
- Hoopili Infrastructure Master Plans, Oahu (2015)
- Farrington High School Long Range Development Plan, Oahu (2015)
- University of Hawaii Infrastructure Master Plan, Oahu (2013)
- Brigham Young University Hawaii Infrastructure Master Planning, Oahu (2012)
- Makaiwa Hills Infrastructure Master Plan, Oahu (2012)
- Hawaii Community College – Manono Campus Long Range Development Plan, Hawaii (2011)
- Lanai High and Elementary School Expansion Master Plan, Lanai (2009)
- Oahu Integrated Resources Planning Project (Comprehensive Planning of Water Resource Management and Development Strategies), Oahu (2006)
- Ocean Pointe Master Planned Community Infrastructure Master Plan, Oahu (2004)
- Barbers Point Naval Air Station (Kalaehoa) Community Redevelopment Plan, Oahu (2001)
- Keahole Airport Master Plan, Hawaii (2001)
- Manele and Koele Master Plans, Lanai (2000)
- Tripler Army Medical Center Utility Improvement and Real Property Master Plan, Oahu (1999)
- Ewa Villages Revitalization Master Plan, Oahu (1996)
- Villages of Kapolei Infrastructure Master Plan, Oahu (1994)
- West Loch Master Planned Community Infrastructure Master Plan, Oahu (1994)

Drainage Master Plans

A recognized leader in hydrology and hydraulics in Hawaii, RMTC has performed regional drainage analyses throughout the State. RMTC's drainage master plans evaluate existing drainage conditions, leading to conceptual designs for flood control infrastructure. RMTC's drainage solutions have been successfully incorporated into community amenities, such as golf courses and parks, and frequently involve principles of sustainability and watershed management. RMTC has completed regional drainage master plans on Oahu, Maui, Lanai, Kauai, and Hawaii.



The 18-hole, Ernie Els-designed Hoakalei Golf Course at Ocean Pointe.



Projects / Drainage Master Plans

2010-ongoing

- Kalaeloa Parcels 1, 2, and 3, Subdivision and Drainage Master Plan, Oahu (2019)
- Kapolei West Drainage Master Plan, Oahu (2014)
- Makaiwa Hills Drainage Master Plan, Oahu (2012)
- Kapolei Harborside Drainage Master Plan, Oahu (2011)

2000-2009

- Kukuiula Master Planned Community, Drainage Master Plan, Kauai (2009)
- Kihei Drainage Master Plan, Waikoloa Gulch (Site Plan), Maui (2009)
- Honoapu Drainage Master Plan, Hawaii (2009)
- Hoakalei Golf Course Drainage Plan, Ocean Pointe Master Planned Community, Oahu (2008) (*above*)
- Kahuku Drainage Master Plan, Oahu (2008)
- Tripler Army Medical Center Drainage Improvements, Oahu (2006)
- Laie Regional Drainage Master Plan, Oahu (2006)
- Manele Resort Regional Drainage Master Plan, Lanai (2003)

- Koele Resort Regional Drainage Master Plan, Lanai (2003)
- Lanai City Drainage Master Plan, Lanai (2003)
- East Kapolei Drainage Master Plan, Oahu (2000)

1990-1999

- Ewa Villages Revitalization, Oahu (1996)
- West Loch Master Planned Community Drainage Master Plan, Oahu (1992)

Prior to 1990

- Villages of Kapolei Drainage Master Plan, Oahu (1987)

Water System Planning and Design

RMTC's professional experience spans regional and island-wide potable water master planning, as well as water source development, treatment, transmission, distribution, and storage systems.

The firm has designed water systems for residential and commercial developments, schools, and industrial and military facilities.

Clients have included water supply departments of all Hawaii's counties, State agencies, and all branches of the military. RMTC's familiarity with government regulations and the firm's productive working relationships with agency staff are key advantages when applying for approval of water system designs.

Projects / Water System Planning and Design

- Auloa Road and Ulukahiki Street 16-inch Water Mains, Oahu (ongoing)
- Kalaeloa Water Master Plan and Leak Detection Investigation, Oahu (2020)
- Kaei Hana II Industrial Water Tank, Hawaii (2013)
- Eleele Water System Study, Kauai (2010)
- Kamehameha Highway to Heeia Street 16" and 8" Water Mains, Oahu (2006)
- Kalihi Water System Improvements, 16", 12", 8", and 2" Water Lines, Oahu (2006)
- Kalakaua Avenue 16" Water Main, Part II, Beretania Street to Paki Avenue, Oahu (2004)
- Farrington Highway, Part IV, Lawaia Street to Jade Street 24", 12", and 8" Water Mains, Oahu (2003)
- Farrington Highway, Part III, Jade Street to Kaulawaha Road 24" and 8" Water Mains, Oahu (2001)

Solid Waste

RMTC is experienced in the design of sanitary landfills utilizing the most current design standards and applicable state and federal regulations. The firm also has been actively involved in landfill site selection studies and environmental documentation and permitting requirements.

Projects / Sanitary Landfill Design, Planning, Permitting and Environmental Documentation

- New Kauai Landfill Planning and EIS, Kauai (2020)
- Central Maui Landfill Maintenance Facility PER, Maui (2010)
- County of Kauai Landfill Site Selection Planning, Kauai (2009)
- Waimanalo Gulch Sanitary Landfill Lateral Expansion Environmental Impact Statement, Oahu (2006)
- Study of Oahu Municipal Refuse Disposal Alternatives, Oahu (2004)
- Island-Wide Landfill Site Selection Planning, Oahu (2003)
- Waimanalo Gulch Sanitary Landfill Expansion EIS, Oahu (2002) (*below*)
- Central Maui Sanitary Landfill, Phases I-IV, Maui (1990-2002)



RMTC planners have been involved in securing environmental entitlements and permitting for Oahu's Waimanalo Gulch Sanitary Landfill since 2002.

RMTC also has provided technical planning services for landfill closures. The closure plans have addressed regulations concerning test pits, fill material segregation, and ambient air monitoring.

Projects / Sanitary Landfill Closures

- Pohakuloa Training Area Sanitary Landfill, Hawaii (1995)
- Puuwaawaa Ranch Landfill Closure Investigation, Hawaii (1994)

Flood Zone Determinations

RMTC has conducted numerous detailed riverine flood studies for the U.S. Army Corps of Engineers (USACE) and the Federal Emergency Management Agency (FEMA). The firm's hydrologists are currently conducting flood studies throughout the Pacific as part of FEMA's nationwide upgrade to the Digital Flood Insurance Rate Map (DFIRM) format. To produce detailed base maps meeting FEMA standards, RMTC has conducted flood plain mapping, using both aerial methods and ground surveys, as well as computerized hydraulic analyses to determine flood elevations and inundation limits.

Projects / DFIRM and Riverine Flood Studies

- South Kona Flood Study, Hawaii (2015)
- Coastal and Riverine Flood Insurance Studies/ Restudies throughout FEMA Region IX, including Hawaii, Territory of Guam, American Samoa, and Commonwealth of the Northern Mariana Islands (Joint Venture) (2009)
- Puukapu Flood Study, Hawaii (2008)
- Kihei Flood Study, Maui (2007)
- Waiakea Stream Flood Study, Hawaii (2005)
- FEMA Flood Insurance Study, Rota, Commonwealth of the Northern Mariana Islands (2000) (*below*)



RMTC prepared an engineering planning study for flooding and drainage problems within Sinapalu Village on the Island of Rota. The hydrologic and hydraulic analyses were performed to identify flood hazards within the village.

Technical Personnel: Civil Engineering Department

Name Title	Years of Professional Experience	Professional Engineer (PE), Civil - Hawaii	B.S. Civil Eng.	M.S. Civil Eng.	LEED AP / GA
Lam, Collins Vice President / Manager, Civil Engineering Department	28	■	■	■	
Yamamoto, James Vice President / Senior Civil Project Manager	44	■	■	■	
Luke, Craig Vice President/ Senior Civil Project Manager	37	■	■		
Mendes, Kevin Civil Project Manager	34	■	■		■
Armstrong, Stacy Civil Project Manager	33	■	■		■
Okamoto, Michael Civil Project Manager	31	■	■		■
Nakaoka, Brent Civil Project Manager	24	■	■		■
Chong, Walter Civil Project Manager	33	■	■		
Ring, Gordon Civil Project Manager	30	■	■		■
Tateishi, Jason Civil Project Manager	21	■	■		
Nakamura, Chris Senior Civil Engineer	22	■	■		■
Nakamura, Michael Senior Civil Engineer	21	■	■		
Miyashiro, Waylen Senior Civil Engineer	19	■	■		
Du, Chi Senior Civil Engineer	17	■	■		
Tom, Gregory Senior Civil Engineer	18	■	■		■
Yong, Randall Senior Civil Engineer	20	■	■		■
Liao, Tsung-I Civil Engineer	20	■	■	■	
Inaba, Darren Civil Engineer	11	■	■	■	
Ichikawa, Danlei Civil Engineer	10	■	■		
Luke, Cristina Civil Engineer	9	■	■		
Hong, Rayshi Civil Engineer	8	■	■		
Ardo, David Civil Engineer	7	■	■		
Shon, Jessica Assistant Engineer II	6	EIT	■		
Ninomiya, Matthew Assistant Engineer II	4		■		
Co, Christopher Assistant Engineer II	4	EIT	■		

Name Title	Years of Professional Experience	Professional Engineer (PE), Civil - Hawaii	B.S. Civil Eng.	M.S. Civil Eng.	LEED AP / GA
Bissen, Brian Assistant Engineer II	4	EIT	■		
Remo, Luigi Assistant Engineer I	3		■		
Fong, Dylan Assistant Engineer I	3	EIT	■		
Kamikawa, Keenan Assistant Engineer I	1		■		
Ching, Benton GIS and Geospatial Coordinator	40	■	■	■ Coastal Eng.	
TOTAL	30 people	23	30	5	8

Note: EIT = Engineer-in-Training

ENVIRONMENTAL ENGINEERING

RMTC has completed wastewater treatment and collection system designs and numerous wastewater and water environment planning studies. The firm's environmental engineering practice was organized before the passage of the Federal Water Pollution Control Act in 1972 (renamed the Clean Water Act). RMTC continues to have a large presence in wastewater and water quality engineering with its design of the Sand Island Wastewater Treatment Plant (WWTP) Headworks and Primary Clarifiers projects.

The geographic range of the firm's wastewater work has extended from metropolitan Honolulu to the remote Pacific regions of American Samoa, Palau, Ebeye, and South Korea. Facilities have ranged in size from individual systems for private homes, to systems sized for small communities, to the 90-mgd Sand Island WWTP serving metropolitan Honolulu (*right*). RMTC has recently completed the design for a major renovation of the facility.

Wastewater Treatment Facilities – Design and Studies

RMTC has designed wastewater treatment plants throughout Hawaii and the Pacific region. Projects range from completely new facilities to complex phased upgrades and expansions, both of varying sizes.

Projects / Wastewater Treatment Facilities - System Designs

- Sand Island WWTP, Secondary Treatment, Phase 2, Oahu (Ongoing)
- Honouliuli WWTP, Secondary Treatment, Oahu (ongoing)
- Sand Island WWTP Primary Expansion, Phase 2, Reconstruction, Oahu (2013)
- Eleele WWTP Plant Process Equipment Upgrades, Kauai (2012)
- Sand Island WWTP Expansion, Phase 1, Odor Control System, Oahu (2008)
- Sand Island WWTP Expansion – New Headworks and Primary Clarifiers, Oahu (2006)

- Pukalani WWTP Expansion: Design-Build Construction Plans, Maui (2006)
- Lihue WWTP Cleaning and Repair of Anaerobic Digesters, Kauai (2002)
- Kona International Airport Wastewater Reclamation System, Hawaii (2000)

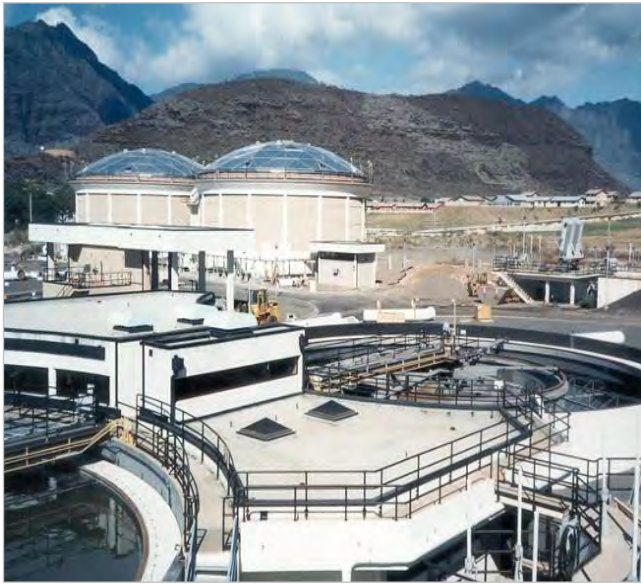


The Sand Island 82-mgd Wastewater Treatment Plant (WWTP) is the State of Hawaii's largest, serving metropolitan Honolulu. Beginning in 2006, RMTC provided the design for two upgrade and modernization projects totaling over \$70 million in construction cost.

RMTC engineers prepare a variety of planning studies to assist clients in determining the appropriate design requirements for wastewater systems, wastewater facilities, and components of those facilities.

Projects / Wastewater Treatment Facilities - Planning Studies

- Sand Island WWTP Membrane Bioreactor Secondary Update Option, Oahu (2019)
- Princeville WWTP Evaluation, Kauai (2007)
- Manele WWTP Expansion Alternatives Study, Lanai (2007)
- Kaupulehu WWTP Optimization and Facility Planning, Hawaii (2006)
- Sand Island WWTP Design Report for Headworks, Primary Clarifiers and Solids Handling, Oahu (2001)
- Waianae WWTP Secondary Upgrades, Oahu (1994) (*next page*)



RMTC's design work for wastewater facilities in West Oahu began in the early 1980s with the Honouliuli Wastewater Treatment Plant. Later, RMTC designed secondary upgrade improvements to the regional Waianae WWTP, shown above.

Regional Wastewater Planning Studies

Many of RMTC's wastewater projects have been regional or islandwide in scope. Projects listed below do not deal with a particular WWTP, but rather multiple facilities within a larger region. The projects listed below have enabled RMTC to gain insight into all of the major WWTPs and pumping station facilities on Oahu.

Projects / Regional Wastewater Planning Studies

- Sand Island WWTP and Sewer Basin Facilities Plan, Oahu (2020)
- Hualalai Wastewater Treatment Plant Expansion Study, Hawaii (2013)
- Licensing of Department of Hawaiian Home Lands Sewers to the City and County of Honolulu, Oahu (2009)
- Ocean Pointe Consolidated Sewer Master Plan, Oahu (2008)
- Turtle Bay Sewer Master Plan, Oahu (2006)
- Lanai Utility Management (Wastewater, Water, Electrical Systems), Lanai (2005)
- Laie Wastewater Pump Station and Collection System Expansion, Oahu (2003)
- Islandwide Spill Containment / Spill Response Plan for the City and County of Honolulu, Oahu (1997)
- Islandwide Wastewater Planning Study for the U.S. Department of Defense, Oahu (1996)

Wastewater Collection and Conveyance Systems

RMTC has provided design services for numerous wastewater conveyance systems. These systems include pump station and force main studies and designs and sewer system studies. Other related work includes repairs of sewers and normal gravity and new low-pressure sewer system designs.

Projects / Collection and Conveyance Systems

- Papakolea Sewer System Improvements, Oahu (ongoing)
- Papakolea Sewer System Condition Assessment, Oahu (2012)
- Fort DeRussy Wastewater Pump Station Modification, Oahu (2009)
- Beachwalk Wastewater Pump Station to Ala Moana Park Sewer, Phase I, Force Main, Oahu (2009)
- Beachwalk Pump Station Condition Assessment, Oahu (2008)
- Ala Moana to Kapiolani Boulevard Trunk Sewer Rehabilitation / Replacement Analysis, Oahu (2005)

Small Wastewater Systems

RMTC also has completed analysis and design for numerous small-scale wastewater systems, including "cesspool conversions." Over the past few years there has been a demand for the closure or conversion of existing large-capacity cesspools in response to a ban on such cesspools by the United States Environmental Protection Agency. Conversion designs and installations have been completed on Oahu, Maui, and Hawaii. In the majority of situations, RMTC's replacement designs featured septic tanks and leach fields or converted seepage pits.

Projects / Small Wastewater Systems

- Kamehameha Schools Cesspool Remediation Project, Statewide (ongoing)
- Large Capacity Cesspool Conversion Valley of the Temples, Oahu (2005)
- Dillingham Ranch House Individual Wastewater System, Oahu (2005)
- Mauna Kea Golf Course Cesspool Conversion, Hawaii (2005)
- Kinoole Cesspool Conversion, Oahu (2005)

Technical Personnel: Environmental Engineering Department

Name Title	Years of Professional Experience	Professional Engineer (PE), Civil - Hawaii	B.S. Env. / Civil Eng.	M.S. Env. / Civil Eng. or Higher	LEED AP / GA
Yukumoto, Kyle Vice President / Manager, Environmental Engineering Department	28	■	■	■	
Nishikawa, Jaime Environmental Project Manager	21	■	■	■	■
Wong, Tiow Ping Chief of Wastewater Technology	22	■	■	■	
Miyasato, Ann Environmental Project Coordinator	22	■	■	■	■
Tasaka, Jayson Senior Environmental Engineer	10	■	■	■	
Imanaka, Nicole Environmental Engineer	10	■	■		ENV SP
Tsuchida, Tyler Environmental Engineer	7	■	■	■	
Ichikawa, Chelsea Environmental Engineer	8	■	■		
Suda, Jonathan Assistant Engineer II	4	EIT	■		
Asper, Joshua Assistant Engineer II	4	EIT	■		
Lee, Sheldon Assistant Engineer I	3		■		
Washino, Steven Assistant Engineer I	3		■		
Kagamida, Conner Assistant Engineer I	1		■	■	ENV SP
Ancheta, Jacen Assistant Engineer I	<1		■	■	
Emoto, Kelcie Environmental Scientist	8		B.S. ENV. SCIENCE		
Tsutsul, Blake Design Visualization Artist	10		A.S. GRAPHIC DESIGN		
Fong, Sue Senior Draftsperson / CADD Technician	29		A.S. ARCH. DRAFTING		
TOTAL	17 people	8	14	8	2

Note: EIT = Engineer-in-Training

SURVEYING & PHOTOGRAMMETRY

RMTC has one of the largest surveying practices in the State of Hawaii. RMTC has four licensed surveyors plus experienced and technically proficient surveying field crews on two islands (Oahu and Hawaii). The firm's surveying capabilities are complemented by an extensive aerial photography library of Hawaii and the Pacific dating back to 1949. RMTC offers a full range of aerial photogrammetry services including digital orthophotography.

Surveying Services

RMTC's Surveying Department has the capability to provide a full range of surveying and related services including:

- Construction stakeout surveys
- Boundary surveys
- Land title surveys
- Aerial photography and aerial topographic surveys
- American Land Title Association (ALTA) surveys
- Digital terrain modeling
- Global positioning system (GPS) surveys
- As-built surveys
- Shoreline certification
- Preliminary and final design layouts
- Consolidation and subdivision applications

Use of Advanced Technologies

RMTC has steadily kept pace with new surveying and mapping technologies. Examples include:

- Dual frequency Global Positioning System (GPS) surveying, including kinematic techniques
- Aerial photo control using airborne GPS combined with an inertial measurement unit (IMU)
- Softcopy photogrammetry technology, including automated and semi-automated extraction of Digital Elevation Model (DEM) data and preparation of high resolution digital orthophotography.



RMTC surveyors conduct field surveys utilizing the latest in GPS technology: the Trimble R10 GNSS System.

Topographic Surveying

RMTC performs hundreds of surveys each year, a vast number of which are topographic surveys for projects throughout Hawaii. From small residential lots to projects encompassing thousands of acres, each survey assignment is analyzed to determine the most cost-effective method to meet project requirements. For topographic surveys of less densely vegetated areas over 25 acres in size, RMTC often utilizes in-house capabilities in aerial photogrammetry to yield cost and time savings.

Projects / Topographic Surveying

- Honolulu Rail Transit Project, Real Estate Mapping and Surveying, Oahu (ongoing)
- Kapalama Container Terminal Yard, Honolulu Harbor, Oahu (2015)
- Nuuanu Reservoir, Oahu (2015)
- Puukapu Pastoral Lots Water System, Surveying and Traffic Improvements, Hawaii (2014)
- Kalakaua Avenue Sidewalks, Oahu (2011)
- Hoakalei Country Club, Oahu (2009)
- Kapolei Village Center Design, Oahu (2008)
- Waialua Surveying, Various Parcels, Oahu (2008)
- Ewa Lot 16915 and 16916 Consolidation and Resubdivision, Oahu (2007)
- Marconi Point Subdivision of Lot 160-B, Oahu (2006)
- Kapolei Village #2 Rentals, Oahu (2006)
- Ewa Villages Extension of Kapolei Parkway, Phase 8A, 8B, and 8C, Oahu (2005)
- North-South Road Phase 1A, 1B, and 1C, Oahu (2004)



RMTC surveyors perform a topographic survey at the Daniel K. Inouye International Airport, Oahu.

Boundary Surveying

RMTC is proud of its long history of performing boundary surveys throughout the State of Hawaii. These have been performed for both small properties and large land tracts of up to 10,000+ acres.

Projects / Boundary Surveys

- Metes and Bounds Survey, Legal Description and Monumentation for Oahu and Big Island Army Training Lands Leased from State of Hawaii (ongoing)
- Pupukea Rockfall Assessment, Boundary Survey and Topographic Mapping, Oahu (ongoing)
- Huleia National Wildlife Refuge, Kauai (2012)
- Pohakuloa Training Area (PTA) West Land Acquisition RFP Preparation, Aerial Topographic Survey and Metes and Bounds Survey, Hawaii (1010 acres), for the U.S. Army Corps of Engineers (2009)
- Wehilani at Waikoloa Boundary Survey, Hawaii (2008)
- Boundary Survey for the Old Volcano Trail, Hawaii (2006)

Parcel Subdivision and Consolidation

RMTC surveyors understand the requirements and are experienced in the preparation, filing and recordation of subdivisions under the Land Court and Regular System.

Projects / Parcel Subdivision and Consolidation

- Various Agricultural Lot Subdivisions, Oahu (Ongoing)

- Turtle Bay Subdivision Mapping, Shoreline Surveying, and Conservation Easements for Turtle Bay Resort, Oahu (2019)
- Subdivision of Various Parcels and Land Court Approval, Waialua and Mokuleia, Oahu (2008)
- Honuapo Ranch, Consolidation and Resubdivision, Hawaii (2008)
- Hamakua Property Consolidation and Resubdivision, Hawaii (2008)
- Onomea-Kaupakauea Consolidation and Resubdivision, Hawaii (2007)
- Ewa Lot 16915 and 16916 Consolidation and Resubdivision, Oahu, (2007)

Aerial Topographic Mapping

RMTC has long been an industry innovator and leader in the field of photogrammetry. Aerial topographic mapping has proven particularly effective in surveying large expanses of unvegetated lava fields on Hawaii and for any project requiring topographic information for large parcels.

RMTC developed and patented a process which combined topographic line data with an orthophoto image and was the first surveying firm in Hawaii to introduce aerial photography for roadway planning.

Projects / Aerial Topographic Mapping

- Kalaeloa Parcels 1, 2, and 3, Oahu (ongoing)
- Aerial Mapping and Topographic Survey and Cadastral Mapping of University of Hawaii West Oahu, Oahu (2020)
- Aerial Topographic Mapping and Digital Orthophoto of Lihue Airport, Kauai (2016)
- Lanai Airport, Lanai (2013)
- Saddle Road, West Side, Hawaii (2010)
- Makakilo Drive Extension, Oahu (2009)
- Route 11 Mapping, Hawaii (2009)
- Route 130 Mapping, Hawaii (2009)
- Pohakuloa Training Area (PTA) West Land Acquisition RFP Preparation, Aerial Topographic Survey and Metes and Bounds Survey, Hawaii (2009)
- Kona International Airport Terminal Expansion, Hawaii (2009)
- Lanai Affordable Housing Area, Lanai (2009)
- Moaula Planned Unit Community, Molokai (2008)
- Makakilo Quarry, Oahu (2008)

- Mamalahoa Bypass Road, Roadway Alignment and Right-of-Way Mapping, Hawaii (2008)
- Honolulu High-Capacity Rail Transit Corridor Project, Oahu (2007)
- Eleele Urban Expansion Aerial Topographic Mapping, Kauai (2007)
- Kaena Point Water System, Oahu (2007)
- Leeward Bikeway, Waipio Access Point Road to Lualualei Naval Road, Oahu (2007)
- Waikoloa Lots, Hawaii (2006)
- Waiakea Stream Flood Control, Hawaii (2006)
- Aina Lea Development, Phase 1, Increment 1, Hawaii (2005)
- North-South Road, Phase 1C, Oahu (2007); Phases 1A and 1B, Oahu (2005)
- Villages of Kapolei, Village 6, Maluohai, Oahu (2001)
- Farrington Highway Safety Improvements, Nanakuli to Makaha, Oahu (2000) (*below*)



For the 17-mile Farrington Highway Safety Improvements project, RMTc engineers used aerial topographic surveys to support civil design.

Cadastral Surveying

Surveys that are performed for the purpose of determining land boundaries, for the subdivision of parcels of land, and for the registration and transfer of property, are generally referred to as cadastral surveys. RMTc has conducted more cadastral surveys than any other surveying firm in the State.

Projects / Cadastral Surveying

- Makena Resort Control Monuments, Maui (2008)
- Hualalai Vistas Subdivision, Hawaii (2008)
- Waikoloa Highlands Golf Course and Subdivision, Hawaii (2006)
- Mahinui Subdivision, Oahu (2003)

ALTA Surveying

ALTA (American Land Title Association) surveys are performed according to the "Accuracy Standards for Land Title Surveys" which are used nationally to ensure consistency of results and documentation. RMTc surveyors have performed hundreds of such surveys, primarily to support resort and commercial development throughout the State of Hawaii.

Projects / ALTA Surveying

- Various Wailea Maui Properties ALTA/NSPS Land Title Surveys, Maui (Ongoing)
- Lihue Industrial Park, Kauai (2017)
- Kahului Airport Industrial Subdivision, Maui (2017)
- Kapolei Business Park, Oahu (2016)
- King Kamehameha Kona Beach Hotel, Hawaii (2016)
- Waipahu Industrial Park, Oahu (2015)
- Navy Family Housing PPV, Oahu (2012)
- Pagoda Hotel, Oahu (2010)
- Hilo Medical Building, Hawaii (2008)
- Orchid at Mauna Lani Resort, Hawaii (2008)
- Don Quixote Store Site, Oahu (2007)
- 930 Ward Avenue, Oahu (2007)
- Makaha East Golf Course, Oahu (2007)
- Pearl Kai and Westridge Shopping Centers, Oahu (2007)
- Princeville at Hanalei, Kauai (2006, 2016)

Flood Elevation Certifications

RMTc also has prepared Flood Elevation Certifications for real estate firms. The Flood Elevation Certificate is an important administrative tool of the National Flood Insurance Program (NFIP). This certificate, used only to certify building elevations, is used to provide elevation information to ensure compliance with floodplain management ordinances, determine insurance premium rates, and support a request for a Letter of Map Amendment (LOMA) or Letter of Map Revision (LOMR).

Surveys Supporting Shoreline Certification Process

Because many of Hawaii's premier resorts and resort-oriented residences are waterfront properties, RMTc surveyors have extensive experience with performing surveys needed to obtain shoreline certification.

The firm has performed this work throughout Hawaii, Oahu, Lanai, and Maui.

Projects / Surveys for Shoreline Certification

- Turtle Bay Resort (ongoing)
- Wailea Renaissance Resort, Maui (2008)
- Hualalai Resort, Hawaii (2008)
- 49 Black Sand Beach, Hawaii (2008)
- Club Lanai, Hulupoe, Lanai (2006)

Recordation under the Land Court and Regular (Bureau of Conveyances) Systems

RMTc surveyors understand the requirements and actively practice the preparation, filing, and

recordation of subdivisions under both the Hawaii Land Court and regular (Bureau of Conveyances) systems.

Projects / Recordation

- Waialua Surveying, Various Parcels, Oahu (Ongoing)
- Kapolei Village Center Design, Oahu (2008)
- Ewa Lot 16915 and 16916 Consolidation and Resubdivision, Oahu (2007)
- Marconi Point Subdivision of Lot 160-B, Oahu (2006)
- Kapolei Village #2, Rentals, Oahu (2006)
- Kapolei Village #5, Affordable Housing, Oahu (2006)
- Kapolei High School Fort Barrett Road Driveway, Oahu (2006)
- Ewa Villages Extension of Kapolei Parkway, Phase 8A, 8B and 8C, Oahu (2005)
- North-South Road Parcel Maps, Oahu (2004)
- Farrington Highway, Replacement of Makaha Bridges 3 and 3A, Oahu (2004)

Technical Personnel: Surveying & Photogrammetry Department

Name Title	Years of Professional Experience	Licensed Land Surveyor, Hawaii	Licensed, Land Court, Hawaii	B.S. Civil Eng.
Tanoue, David Vice President / Manager, Surveying & Planning Departments	33			Juris Doctor*
Suzuki, Ryan Surveying Project Manager	28	■	■	■
Valdez, Benjamin Surveying Party Chief / Photogrammetrist	35	■		■
Bumanglag, Al Greg Surveyor	39			
Gonzales, Donna Surveyor	10	■		■
Toba, Daniel Assistant Surveyor II	17			■
Bell, Leo Assistant Surveyor I / Survey Technician	8			B.S. ENV. SCIENCE
Mashiyama, Nathan Assistant Surveyor I	2			■
Suzuki, Tiffany Assistant Surveyor I	1			
TOTAL	9 people + 5 field crews	3	1	5

*Mr. Tanoue is a licensed attorney (Hawaii State Bar Association).

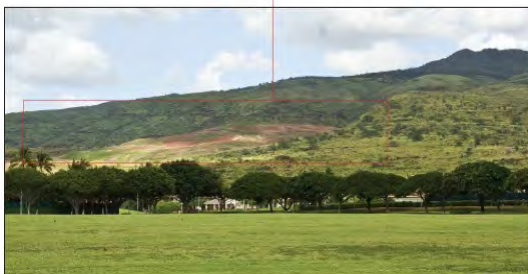
GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Since 1993, RMTC has provided GIS services for numerous public and private entities on a diverse array of projects. We have significant experience with GIS and Facilities Management Systems (FMS), from gathering data that will be used in our client's system to the actual development of the database and maps. For Federal, State and County agencies and the military, as well as private clients, RMTC has compiled digital mapping data to be used as the geographical basis for the GIS or FMS systems for planning and engineering analysis.

Projects / Geographic Information Systems

- Honolulu Harbor Master Plan, Oahu (ongoing)
- Kahului Airport Master Plan Update, Maui (2017)
- South Hilo Farms Soil and Water Conservation Plans, Hawaii (2013)
- Oahu Landfill Siting Project, Oahu (2013)
- South Kona Flood Study, Hawaii (2013)
- Stream Diversion Study, Statewide (2009)
- Digital Flood Insurance Rate Mapping and FIS Text Production, Oahu (2009)
- Kamehameha Schools, Non-Residential Land Inventory, Oahu (2009)
- Kamehameha Schools, Kapalama Campus, Utility System Mapping (Conversion of Survey Map to GIS Files), Oahu (2008)
- Maui Public Facilities Inventory, Maui (2007)
- Lanai 911 GIS Mapping, Lanai (2007)
- Waimanalo Gulch Sanitary Landfill Lateral Expansion, Oahu (2004) (*below*)
- Road Asset Inventory, Hawaii (2004)
- Statewide Airport Asbestos Abatement Study, Statewide (2003)
- GIS Project File Development for Guam Conservation Mapping of U.S. Naval Installations, Territory of Guam (1999)
- Tripler Army Medical Center Master Plan, Oahu (1998)

View of Waimanalo Gulch
Ko Olina, Second Lagoon Road



Permitted



5 Years



10 Years



15 Years

For the Waimanalo Gulch Sanitary Landfill Lateral Expansion Environmental Impact Statement, ArcGIS's 3D mapping capability was used to illustrate the area of the landfill expansion and simulate its relative mass from different physical viewpoints in the community.

Technical Personnel: Geographic Information Systems

Name Title	Years of Professional Experience	Licensed In Hawaii	B.S. Civil or Equivalent	M.S. Civil or Equivalent
Yamamoto, James Vice President / Senior Civil Project Manager	44	PE	■	■
Ching, Benton GIS and Geospatial Coordinator	40	PE	■	■
Suzuki, Ryan Surveying Project Manager / GIS Specialist	28	LLS / LLC	■	
Niermann, James Planning Project Coordinator / GIS Specialist	27	AICP		■*
Liao, Tsung-I Civil Engineer / GIS Specialist	21	PE	■	■
Staples, Kelly Senior Planner / GIS Specialist	12			■**
TOTAL	6	5	4	5

*Mr. Niermann has a Masters in Urban and Regional Planning.

** Ms. Staples has a Master of Science Degree in Natural Resources and Environmental Management.

CONSTRUCTION MANAGEMENT AND PROGRAM MANAGEMENT

Construction Management

Over the past ten years RMTc has completed an estimated 50 construction management projects with total construction costs of over \$900 million. Among the pioneering ventures attributed to the firm is the first private construction management practice serving government clients in Hawaii.

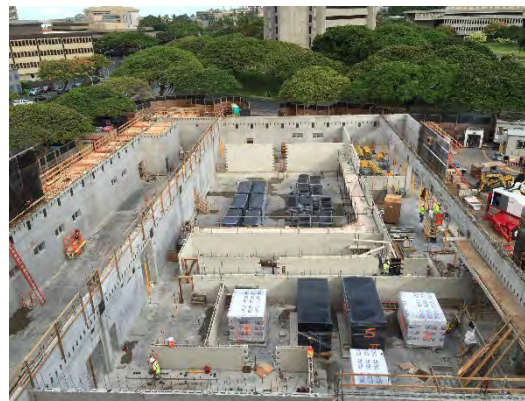
That proud tradition, started in 1974 with projects for the State of Hawaii, Department of Transportation (HDOT) and other agencies, continues without interruption. Through this and other wide-ranging experience, our construction inspectors have gained both technical and practical knowledge of various types of infrastructure projects and developed strong working relationships with owners and project managers.

RMTc construction managers have overseen the development of numerous projects including site work, subdivision, roadways, airport and harbor facilities, wastewater treatment facilities, utility improvements, new building construction, building renovation work, electrical, telephone and communication improvements, and air conditioning improvements.

Projects / CM for Building Sitework and Housing Developments

- PASHA Maintenance, Marine Operations, Administration, and Guard House Buildings, Honolulu Harbor, Oahu (ongoing)
- Joint Traffic Management Center, Oahu (2021) *(right top)*
- Waikiki Improvements, Kalakaua Avenue Sidewalk, Phase 2, Oahu (2020)
- Laiopua Village 4 Subdivision, Phase 1 – Akau, Hawaii (2015)
- Ala Moana Boulevard / Auahi Street Sewer Rehabilitation, Ph. 1 and 2, Oahu (2015)
- Kunia De Monte Village Fire Protection Line, Oahu (2012)
- City BWS Public Services Building A/C System Improvements, Oahu (2012)

- Sunset Beach Recreation Center, Oahu (2009) *(bottom)*
- Ronald McDonald House at Judd Hillside, Oahu (2006)
- Villages of Kapolei 7 and 8, Maluohai, Oahu (2006)
- Kahe Power Plant Fuel Oil Tank Fire Loop and Fire Pump House, Oahu (2004)
- Installation of Field Turf at Aloha Stadium, Oahu (2003)
- Water System Improvements, Phase 2, University of Hawaii at Manoa, Oahu (1999)
- HOSHA Improvements, University of Hawaii at Manoa, Oahu (1999)
- School of Architecture, University of Hawaii at Manoa, Oahu (1999)
- Parking Structure Phase II, University of Hawaii at Manoa, Oahu (1999)
- Makai Campus Improvements, University of Hawaii at Manoa, Oahu (1999)
- West Loch Elderly Housing, Oahu (1997)
- Pacific Ocean Science and Technology Center, University of Hawaii at Manoa, Oahu (1997)



Joint Traffic Management Center, Oahu (2021)
Construction Cost: \$54M



Sunset Beach Recreation Center, Oahu (2009)
Construction Cost: \$2.5M

Projects / CM for Wastewater Facilities

- Kalaeloa Business Park Wastewater Pump Station, Oahu (2018)
- Ala Moana Boulevard / Auahi Street Sewer Rehabilitation, Phase 2, Oahu (2017)
- Ala Moana 69-inch Sewer Rehabilitation, Oahu (2017)
- Sand Island Wastewater Treatment Plant Ultraviolet Disinfection Facility and Effluent Pump Station, Oahu (2006) (*below*)
- Hart Street Wastewater Pump Station Force Main Replacement (Through Honolulu Harbor), Oahu (2002)
- Kona International Airport, Wastewater Treatment Plant, Hawaii (2001)
- West Loch Estates and Fairways Wastewater Pump Station, Oahu (1997)
- Papaikoa Wastewater Treatment Plant, Hawaii (1990s)
- Wailua Wastewater Treatment Plant, Kauai (1990s)



Sand Island Wastewater Treatment Plant Ultraviolet Disinfection Facility and Pump Station, Oahu (2006)
Construction Cost: \$81M

Projects / CM for Highways, Roadways, and Bridges

- As-needed CM Services Contract for Kauai Department of Water: Kaunualii Highway 16-inch Main and Emergency Pump Connection and Hanapepe Road 6-inch Main Replacement, Kauai (2022)
- Queen Kaahumanu Highway, Phase II, Hawaii (2019)
- Kalaeloa Boulevard Improvements, Oahu (2018)

- City and County of Honolulu, Reconstruction of Concrete Sidewalks IDIQ, Oahu (2018)
- Kealakaha Stream Bridge Replacement, Hawaii (2010) (*below*)
- Curb Ramps at Various Locations, Oahu (2006)
- Pedestrian Facilities and ADA Compliance, Statewide (2006)
- Farrington Highway Widening, Oahu (1998)
- Ewa Villages Pavement Replacement Work for Renton Road and Various Roads, Oahu (1996)
- Villages of Kapolei Backbone Roadway Network, Oahu (1994)
- Kakaako Improvement Districts 1, 2 and 3, Oahu (1988-1993)



Kealakaha Stream Bridge Replacement, Hawaii (2010)
Construction Cost: \$36M

Projects / CM for Airports and Harbors

- NDWP Roadway/Terminal Signage Improvements, Daniel K. Inouye International Airport (HNL), Oahu (ongoing)
- CM Services for Miscellaneous Terminal Repairs/Upgrades Lihue Airport: Terminal Siding Repairs, Kauai (2021)
- Hangar 110 Improvements, Phase IV, Kalaeloa Airport, Oahu (2018)
- Elliott Street New Employee Parking Lot, HNL, Oahu (2017)
- Hangar 110 Improvements, Phase II, Kalaeloa Airport, Oahu (2015)
- Runway 26L Pavement Improvements, HNL, Oahu (2014)
- Overseas Terminal Chiller Plant Replacement, HNL, Oahu (2013)

- Airfield Striping and Miscellaneous Improvements, KOA, Hawaii (2013)
- Central Concourse Reroofing and Spall Repair, HNL, Oahu (2012)
- Aircraft Rescue and Fire Fighting Station Improvements, Molokai (2011)
- HNL, Air Conditioning Modifications, Phase II, Diamond Head Chiller Plant and Common Chilled Water Loop, Oahu (2009) *(below)*



Air Conditioning Modifications, Phase II, Diamond Head Chiller Plant and Common Chilled Water Loop, HNL, Oahu (2009)

Construction Cost:

- Diamond Head Chiller Plant - \$13.7M
- Common Chilled Water Loop - \$11.7M

- Environmental Compliance Measures, HNL, Oahu (2008)
- Washwater Containment, HNL, Oahu (2008)
- Wiki Wiki Roadway Modifications, HNL, Oahu (2008)
- Roof Rehabilitation for Building 349, HNL, Oahu (2008)
- Kona International Airport, Parking Lot Expansion, Phases I and II, Hawaii (2008) *(right top)*
- Molokai Airport, Runway 5-23 Pavement Repairs, Molokai (2008)
- Kalaeloa Airport, Runway and Taxiway Improvements, Oahu (2007)
- Lanai Airport, Replace Terminal Air Conditioning Units and Runway Monitoring System, Oahu (2007)
- Kahului Airport, Runway 5-23 and Taxiways Pavement Repairs, Maui (2007)
- Kapalua Airport, Overlay Runway, Maui (2006)
- Honolulu Harbor, Pier 2 Cruise Terminal, Oahu (2006) *(right middle)*
- Honolulu Harbor, Pier 19 Ferry Terminal, Oahu (2003) *(right bottom)*



Various Construction Projects, Kona International Airport (1998-2009)

Construction Cost: \$10.5M+

Additional projects not listed above under “Projects – CM for Airports” include:

- Terminal Improvements Phases I, II, III
- Wastewater Treatment Plant
- Signage and Graphics Improvements
- Postal Site Preparation
- Peripheral Road and Parking
- Aircraft Rescue/Fire Fighting Training Facility
- Runway/Taxiway Extension and Overlay



Pier 2 Cruise Terminal, Honolulu Harbor, Oahu (2006)

Construction Cost: \$24.5M



Ferry Terminal at Pier 19, Honolulu Harbor, Oahu (2003)

Construction Cost: \$4.3M

Program Management

Program management involves the coordination of simultaneously occurring, interrelated projects. As program manager, RTMC has been engaged to navigate nearly one-half billion dollars worth of capital improvement projects, involving planning, design, and construction phases.

Projects / Program Management

Hoopili Development, Oahu (Ongoing) (*top right*)

Ho'opili is a 1,515-acre master planned development proposed in Ewa, Oahu. The development plans to incorporate single and multi-family residential, commercial, schools, parks, and open space land uses.

RTMC has been commissioned by developer DR Horton to provide project management and professional engineering services to assist in developing infrastructure and mass grading plans to satisfy anticipated conditions of the rezoning from agricultural to residential designation.

Specific details of RTMC's scope of work include:

- Review of the current development goals, future programs and anticipates changes, and present permit condition and requirements.
- Assess the existing infrastructure and site conditions.
- Assess engineering requirements related to backbone infrastructure development.
- Assess the mass grading requirements of the site.
- Assess plan implementation and phasing strategies.
- Develop order-of-magnitude infrastructure cost estimates for various infrastructure systems.
- Coordinate with various approving agencies to develop understandings relating to project permitting and implementation requirements.



Hoopili Development will include 1,515 acres of single and multi-family residential, commercial, school, parks, and open space.

Sand Island Basin Program Management, Oahu (2001-2006) (*below*)

RTMC was program manager for the City and County of Honolulu's \$350-million-dollar upgrade of the Sand Island WWTP and related facilities within the Sand Island Basin. The program management portion included managing the schedule for 11 individual wastewater projects. Status reports to the U.S. Environmental Protection Agency were based on the updated schedule prepared by RTMC, with inputs from the City and contractors.



RTMC was program manager for the City and County of Honolulu's \$350-million-dollar upgrade of the Sand Island WWTP and related facilities within the Sand Island Basin.

Manele Bay and Lodge at Koele Resorts, Lanai (2005-2008)

Castle and Cooke Resorts, LLC is the principal landowner on Lanai and developer of the two resorts. The construction cost of projects under this multi-faceted contract totaled more than \$118 million. For seven years, RMTC assisted in resolving longstanding infrastructure issues on behalf of the client. These included regional drainage, infra-structure inadequacy, land use entitlements, site planning, and government and community relations.

Master A-E, Pedestrian Facilities and Americans with Disabilities Act (ADA) Compliance, Statewide (2004-2005) (below)

The State of Hawaii, Department of Transportation (HDOT), had to meet terms of a federal consent decree deadline of July 2005 to complete ADA improvements at roadway intersections statewide. HDOT called upon RMTC as Master A-E Program Manager. In this role, RMTC engineers managed multiple concurrent projects statewide being completed by six individual civil engineering firms. The work program included design and construction of approximately 1,600 curb ramps on five islands as well as emergency call boxes in remote locations. This highly-accelerated project required both design and construction to be completed within approximately 15 months. Construction cost totaled over \$22.1 million.



RMTC assisted the State Department of Transportation, Highways Division, with management of the highly-expedited design and construction of over 1,600 curb ramps statewide. Total cost of the project exceeded \$22.1 million.

Villages of Kapolei and Related Projects, Oahu (1990-1994) (below)

In addition to the firm’s work on design and surveying, RMTC program managers oversaw multiple projects for the State of Hawaii’s extensive Villages of Kapolei development. Projects under the program management umbrella included: Villages of Kapolei Backbone Infrastructure, Phase 1 and Phase 2; Village 6, Maluohai Subdivision; Kapolei Parkway Bridge and 18" Relief Sewer-Kamaaha Avenue; and Makai Villages 7 and 8, Road A.



RMTC program managers supervised a wide range of construction projects at the Villages of Kapolei.



Ewa Villages Revitalization, Oahu (1996-2000)
(top right)

The City of Honolulu acquired the Ewa Villages after the closure of Ewa Sugar Plantation. RMTC was commissioned as program manager to satisfy the City’s objectives of providing housing opportunities for the plantation tenants, preserving the historic plantation villages, and satisfying the affordable housing demand on Oahu.

RMTC developed a comprehensive Master Plan that retained existing architectural elements and provided for the rehabilitation of existing buildings and the development of 950 new residential units.

RMTC was responsible for the following deliverables:

- Comprehensive Master Plan
- Environmental Impact Statement
- Topographic survey
- Hazardous waste investigation
- Construction documents for the infrastructure, golf course, and rehabilitation of existing and new homes

West Loch Master Planned Community, Oahu (1990-1994) (bottom right)

As Program/Project Manager of this award-winning project of the City and County of Honolulu, RMTC was responsible for the following contract deliverables:

- Comprehensive community master plan including single- and multi-family homes (West Loch Fairways and West Loch Estates), elderly housing, commercial, golf course and shoreline park
- Environmental impact statement
- Topographic survey
- Archaeological survey
- Construction documents for the infrastructure; golf course, clubhouse and maintenance facility; and shoreline park.
- Construction management and inspections of the project
- Coordinating lot turnover with the homebuilders (developers)



Ewa Villages Revitalization project, Oahu



West Loch master planned community, Oahu



For the Ewa Villages Revitalization project and West Loch master planned community, RMTC’s comprehensive services included preparing the master plan and civil design, then conducting program management at subsequent phases of development.

Technical Personnel: Construction Management Department

Name Title	Years of Professional Experience	Professional Engineer License, (PE) Hawaii	Civil Engineering Degree(s) or Similar	Certifications			
				Constr. Qual. Mgmt. (USACE)	Field Sampling & Testing (HDOT)	Storm Water BMP (C&C)	Other
Inouye, Michael Construction Management Department Manager	38		B.S.	■		■	<ul style="list-style-type: none"> - City NPDES MS4 Annual - OSHA Safety and Health - ATSSA Traffic Control Tech - Pervious Concrete Tech - Master Certificate – Concrete Construction Management - Fall Protection - ACI Adhesive Anchor Installation Inspector - Pipeline Assessment and Certification Program (PACP) - Manhole Assessment and Certification Program (MACP) - Lateral Assessment and Certification Program (LACP) - CPR/First Aid/AED
Yee, Lydia Construction Manager	34	■	B.S.	■		■	<ul style="list-style-type: none"> - City NPDES MS4 Annual - Certified Construction Manager - OSHA Safety and Health - Cured-in-Place Pipe Installation, Inspection - ATSSA Traffic Control Tech - Pervious Concrete Tech - Confined Space Trained - Erosion and Sediment Control Plan Coordinator - Certified Inspector of Sediment & Erosion Control - Fall Protection - ACI Adhesive Anchor Installation Inspector - ACI Concrete Anchor Installation Inspector - DOT BMP Training - ASBI Grouting Training - NASSCO PACP/MACP/LACP - CPR/First Aid/AED
Hee, Gregory Resident Engineer / Architect	47	R.A.	M.A. Architecture				
Takahashi, Gary Construction Engineer	34	■	B.S.	■		■	<ul style="list-style-type: none"> - City NPDES MS4 Annual - OSHA Safety and Health - Pervious Concrete Tech - ACI Adhesive Anchor Installation Inspector - Master Certificate – Concrete Repair - Fall Protection - ACE Safety Mgmt Systems - CPR/First Aid/AED
Yamashita, Lambert Construction Engineer	41	■*	B.S.				<ul style="list-style-type: none"> - City NPDES MS4 Annual - Certified Erosion and Sediment Control Plan Preparer - Certified Water Pollution Plan Preparer
Carpenter, Darren Construction Engineer	37	■	B.S.				<ul style="list-style-type: none"> - City NPDES MS4 Annual - Supervisory Development Training - Formal Source Selection - Construction Contract Administration - Design-Build Construction

Name Title	Years of Professional Experience	Professional Engineer License, (PE) Hawaii	Civil Engineering Degree(s) or Similar	Certifications			
				Constr. Qual. Mgmt. (USACE)	Field Sampling & Testing (HDOT)	Storm Water BMP (C&C)	Other
							<ul style="list-style-type: none"> - Various DAWIA Trainings - Confined Space - Excavation & Trenching Safety
Reyes, Jan Construction Engineer	21		B.S. – Biosystems Engineering				<ul style="list-style-type: none"> - City NPDES MS4 Annual - NASSCO PACP/MACP/LACP - Confined Space Competent Person for Construction, General Industry, and Shipyards
Hong, Michael Construction Engineer	19	■	B.S.		■	■	<ul style="list-style-type: none"> - Certified Construction Manager - City NPDES MS4 Annual - OSHA Safety and Health - Cured-in-Place Pipe Installation, Inspection - ACI Concrete Testing Tech, Grade 1 - ACI Adhesive Anchor Installation Inspector - ACI Concrete Construction Inspector - Master Certificate – Concrete Repair - NASSCO PACP/MACP/LACP - Fall Protection - Best Practices Asphalt Pvmnt - CPR/First Aid/AED
Yamashita, Diana Construction Engineer	13	■	B.S.				<ul style="list-style-type: none"> - City NPDES MS4 Annual - Certified Water Pollution Plan Preparer - Certified Professional in Erosion Sediment Control - ACI Adhesive Anchor Installation Inspector - Fall Protection - DOT BMP Training - Excavation & Trenching Safety - CPR/First Aid/AED
Karlson, Michael Construction Engineer	13	EIT	B.S.		■		<ul style="list-style-type: none"> - City NPDES MS4 Annual - ATSSA Traffic Control Tech - Confined Space Trained - Cured-in-Place Pipe Installation, Inspection - ACE Safety Mgmt Systems - ACI Concrete Testing - CPM Scheduling - Best Practices Asphalt Pvmnt - Master Certificate – Concrete Construction Management - DOT BMP Training - CPR/First Aid/AED
Kaichi, Evan Construction Engineer	7	■	B.S.		■		<ul style="list-style-type: none"> - City NPDES MS4 Annual - Master Certificate – Concrete Fundamentals - ACI Adhesive Anchor Installation Inspector - CPR/First Aid/AED
Haraguchi, Taryn Construction Engineer	7	EIT	B.S.-Constr. Engineering Mgmt		■		<ul style="list-style-type: none"> - City NPDES MS4 Annual - OSHA Safety and Health - ACI Concrete Testing - DOT BMP Training - NASSCO PACP/MACP/LACP

Name Title	Years of Professional Experience	Professional Engineer License, (PE) Hawaii	Civil Engineering Degree(s) or Similar	Certifications			
				Constr. Qual. Mgmt. (USACE)	Field Sampling & Testing (HDOT)	Storm Water BMP (C&C)	Other
							<ul style="list-style-type: none"> - Fall Protection - CPR/First Aid/AED
Estabillo, Bryce Construction Engineer	7		B.S.		■		<ul style="list-style-type: none"> - City NPDES MS4 Annual - OSHA Safety and Health - Certified Inspector of Sediment & Erosion Control - Master Certificate – Concrete Fundamentals - ACI Concrete Testing Tech, Grade I - ACI Adhesive Anchor Installation Inspector - CPR/First Aid/AED
Sako, Ryne Construction Engineer	3	EIT	B.S.				<ul style="list-style-type: none"> - City NPDES MS4 Annual - Confined Space - NASSCO PACP/LACP/MACP - Excavation & Trenching Safety - ACI Concrete Anchor Installation Inspector
Estabillo, Kerri Construction Engineer	3	EIT	B.S.				<ul style="list-style-type: none"> - City NPDES MS4 Annual - NASSCO PACP - Excavation & Trenching Safety
Curnan, Daniel Construction Inspector	47				■		<ul style="list-style-type: none"> - OSHA Health and Safety - ECCATS Environmental
Helenihi, George Construction Inspector	42						<ul style="list-style-type: none"> - Journeyman (Carpentry) - City NPDES MS4 Annual - Fall Protection
O'Hara, Norman Construction Inspector	36						<ul style="list-style-type: none"> - City NPDES MS4 Annual - OSHA Health and Safety - Superintendent Training - DOT BMPs
Ho, Phillip Construction Inspector	30				■	■	<ul style="list-style-type: none"> - City NPDES MS4 Annual - Certified Inspector of Sediment & Erosion Control - ACI Shotcrete Inspector - ACI Adhesive Anchor Installation Inspector - CDL Class A - OSHA Safety and Health - ACI Concrete Testing Tech, Grade 1 - Fall Protection - Confined Space - Best Practices Asphalt Pvmnt - CPR/First Aid/AED - DOT BMP Training
McAdam, Scott Construction Inspector	29						<ul style="list-style-type: none"> - City NPDES MS4 Annual - Grade 4 Collection System Operator - NASSCO PACP/LACP/MACP - OSHA – Trenching and Shoring - ATSSA Certified Flagger - Confined Space - Excavation & Trenching Safety
Fitt, James Construction Inspector	28						<ul style="list-style-type: none"> - HDOT Medical Examiner's Certificate
Neighbarger, Neil Construction Inspector	20						<ul style="list-style-type: none"> - City NPDES MS4 Annual - NASSCO PACP/MACP/LACP - Excavation & Trenching Safety

Name Title	Years of Professional Experience	Professional Engineer License, (PE) Hawaii	Civil Engineering Degree(s) or Similar	Certifications			
				Constr. Qual. Mgmt. (USACE)	Field Sampling & Testing (HDOT)	Storm Water BMP (C&C)	Other
							- DPP Erosion and Sediment Control Plan Coordinator
DeMello, Wilfred Construction Inspector	12						- DSO I Certified
TOTAL	23 people	7	17	5	7	6	

*Mr. Yamashita is also a licensed professional engineer in Hawaii and the Commonwealth of the Northern Mariana Islands.

Notes: EIT = Engineer-in-Training

RMTC's civil engineers are cross trained in CM and are available as needed.

PLANNING

Land Planning and Permitting

RMTC's planners offer a range of services to meet the needs of its clients from the preparation of master plans and environmental documents to the preparation of environmental and development permits.

Master Plans

RMTC provides master planning services for private and public clients. Project sizes have ranged from small sites to regional areas encompassing thousands of acres. RMTC has effectively planned a variety of public and private projects including towns, roadways, private residential communities, military installations, airports, recreational parks, and others.

Projects / Master Plans

- Honolulu Harbor Master Plan, Oahu (ongoing)
- Nawiliwili to Ahukini Bike and Pedestrian Facility Master Plan, Kauai (ongoing) (*top right*)
- Koolau Land Partners Sustainable Communities Plan Amendment, Oahu (ongoing)
- Puunene Master Plan, Maui (ongoing)
- Strategic Master Development Plan for East Kapolei Lands, Oahu (2019)
- Lanai Island Strategic Land Planning, Lanai (2017)
- Kahului Airport Master Plan Update, Maui (2016)
- Halawa-Lulukou Interpretive Development Plan, Oahu (2013)
- Kokee and Waimea Canyon State Parks Master Plan, Kauai (2009)
- Statewide Stream Diversion Study, Statewide (2009)
- Waikoloa Highlands Master Plan, Hawaii (2007)
- Pali to Puamana Parkway (Realignment of Honoapiilani Highway) Master Plan, Maui (2005-2007) (*bottom right*)

- Kona International Airport Master Plan, Hawaii (2001)



RMTC planners are preparing a master plan for the Nawiliwili to Ahukini portion of this 16-mile Bike and Pedestrian Path on Kauai. In addition, RMTC planners are preparing an Environmental Assessment which complies with both NEPA and Chapter 343, HRS, as well as an SMA permit application, Conservation District Use Permit Application, and Shoreline Setback Variance application.



RMTC prepared a Master Plan which featured relocation of the Honoapiilani Highway for the purposes of creating an open space preserve along this coastal corridor on Maui. RMTC also prepared the Environmental Assessment and facilitated extensive community outreach.

Environmental Documentation (EISs, EAs)

RMTC planners are highly experienced in preparing environmental documentation (Environmental Impact Statements and Environmental Assessments) in conformance with requirements of the National Environmental Policy Act (NEPA) and Hawaii Revised Statutes, Chapter 343.

Projects / EIS

- Waipahu Sewer Force Main, Oahu (ongoing)

- Ala Wai Canal Dredging and Wall Repairs, EIS, Oahu (2020)
- Haleiwa Improvement District EIS and Improvement District Preliminary Report, Oahu (2020)
- Kokee State Park and Waimea Canyon State Park Master Plan, Kauai (2009)
- Waimanalo Gulch Sanitary Landfill Lateral Expansion, Oahu (2007)
- Waikoloa Highlands EIS, Hawaii (2007)
- Kaloi Gulch Drainageway Improvements, Oahu (2005)
- Hawaii Island Commercial Harbors 2020 Master Plan (Hilo and Kawaihae Harbors), Hawaii (2001)

Projects / EA

- Nawiliwili to Ahukini Bike and Pedestrian Facility Master Plan, Kauai (ongoing)
- Statewide Airports EAs, Various Locations (2022)
- Ritz Carlton Condo Hotel Towers, Waikiki, Oahu (2020)
- Honolulu Marine Small Boat Shipyard at Keehi Lagoon, Oahu (ongoing) *(right)*
- Nuuanu Reservoir, Oahu (2014)
- Central Maui Regional Park, Oahu (2014)
- Makakilo Drive Extension, Oahu (2010)
- Kamehameha Highway, Replacement of Kaipapau Stream Bridge, Oahu (2008)
- Dillingham Ranch Subdivision, Oahu (2006)
- Kahe Power Plant Improvements, Oahu (2006)
- Fort Weaver Road Widening, Oahu (2004)
- New Kauai Judiciary Complex, Kauai (2002)
- Frear Hall Replacement, University of Hawaii at Manoa, Oahu (2001)

Land Use Entitlements and Permitting

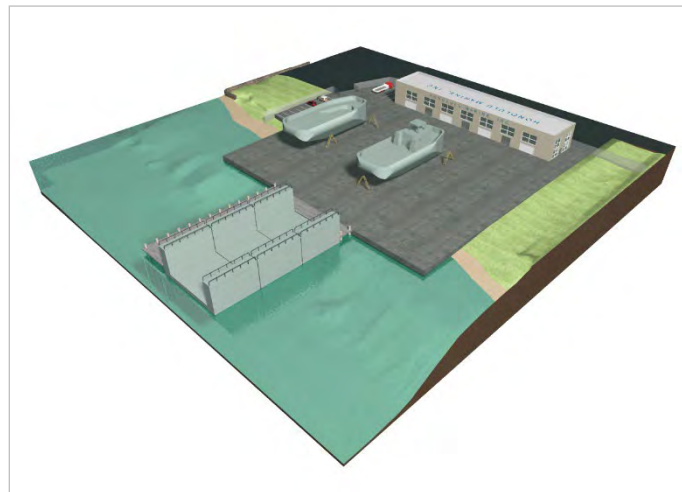
RMTC offers clients the full range of permitting expertise required for land use entitlement, development planning and construction.

RMTC planners provide assistance to clients with complete land use entitlement services on the state and county levels. Entitlement services include State Land Use District Boundary Amendments and various County community

plans, zoning approvals, and development approvals.

State of Hawaii Permits

- Conservation District Use Permit Applications
- Stream Channel Alteration Permits (SCAP)
- 401 Water Quality Certification, Clean Water Act, DOH
- Noise Variances



For the relocation of Honolulu Marine, LLC, small boat builders, from Kewalo Basin to Keehi Lagoon, RMTC planners prepared an EA and wide range of environmental permits including:

- Special Management Area Permit*
- Shoreline Setback Variance*
- Conservation District Use Permit*
- NPDES NOI-B (Industrial Stormwater)*
- NPDES NOI-C (Construction Stormwater)*
- NPDES NOI-F (Hydrotesting)*
- NPDES NOI-G (Construction Dewatering)*
- Department of the Army Permit*
- Section 401 Water Quality Certification*
- CZM Federal Consistency Determination*
- Private Aids to Navigation Permit*

State Land Use District Boundary Amendments

- Brigham Young University Expansion, Oahu
- Waikoloa Highlands Boundary Amendment, Hawaii
- Waimanalo Gulch Sanitary Landfill State Land Use Distribution Boundary Amendment and Special Use Permit, Oahu
- Kona International Airport, Hawaii
- Laumaka Community Release Center, Oahu
- Villages of Kapolei, Oahu
- West Loch Estates and Fairways, Oahu
- Kukuiula Planned Community, Kauai

NPDES Permits

- NOI Form C (construction storm water)
- NOI Form F (hydrotesting)
- NOI Form G (dewatering)
- NOI Form B (industrial stormwater)
- NOI Form K (small municipal separate storm sewer systems) (MS4s)
- NOI Form L (circulation water)

County Permits

- Special Management Area Permits
- Shoreline Setback Variances
- Special District Permits
- Road and Water Variances

Zoning Approvals

- AT&T Makaha Cable Station Zone Change, Oahu
- Meeting Facilities at Mokuleia Ranch, Oahu
- Laumaka Work Release Center Zone Change, Oahu
- Nanakuli Rezoning, Oahu
- Lokahi Center Zone Change, Oahu
- Operating Engineers Training Facility Special Permit, Oahu
- Waikoloa Rezoning, Hawaii

Zoning Variances

- Ronald McDonald House at Judd Hillside, Oahu
- Dillingham Ranch, Oahu

Conditional Use Permits (CUP)

- Ronald McDonald House at Judd Hillside CUP
- Safeway Store at Kapahulu CUP and Joint Development Agreement, Oahu
- Church of Jesus Christ of Latter-Day Saints CUP, Oahu

Plan Review Uses

- Frear Hall Replacement, University of Hawaii at Manoa, Oahu
- Oahu Community Correctional Center, Oahu

Federal Permits

- Section 10 (RHA)
- Section 106 Consultation Historical Preservation
- Section 7 (ESA)
- Coastal Zone Management Federal Consistency Review

Fiber Optic Cable Systems

RMTC planners have extensive prior work experience with project management and obtaining entitlements for the installation of submarine fiber optic cable systems in the State of Hawaii. This includes project scheduling, managing day to day activities of the project team, preparing environmental and land use entitlements, easements, and related responsibilities for numerous submarine cable systems on all Hawaiian Islands with the exception of Niihau.

Projects / Fiber Optic Cable Systems

- Fiber Optic Cable Landing at Ford Island Permits, Oahu, HI (AT&T, General Dynamics, Oceanic Cable) (CDUA)
- Hawaiian Island Fiber Network Cable System (HIFN) Statewide Submarine Fiber Optic Cable System, Statewide, HI (GST Telecom Hawaii) (EA and CDUA for each of five sites)
- Fiber Optic Cable Landing at Ford Island Permits, Oahu, HI (AT&T, General Dynamics, Oceanic Cable) (EA)
- Tycom (TGN) Hawaii Cable System, Oahu, HI (TGN, Inc.) (EA)
- Fiber Optic Cable Landings, Oahu, HI (360 Net, Inc.) (CDUA)
- Fiber Optic Cable Landings at Makaha, Oahu, HI (AT&T, GTE and GST) (CDUA)
- Fiber Optic Cable Landings at Keawaula, Oahu, HI (AT&T and GST) (EA; CDUA)
- Fiber Optic Cable Landings at Kahe Point, Oahu, HI (AT&T, GTE and GST) (EA; CDUA)
- Fiber Optic Cable Landing at Wailea, Maui, HI (GST and GTE) (EA; CDUA)
- Fiber Optic Cable Landing at Kawaihae, Hawaii, HI (GST, GTE, and Southern Cross) (EA; CDUA)
- Fiber Optic Cable Landing at Kaunakakai, Molokai, HI (GST) (CDUA)
- Fiber Optic Cable Landing at Lanai, HI (GST) (EA; CDUA)

Public Involvement Programs

The firm's philosophy on public involvement is to involve stakeholders *early* and *often* to ensure that stakeholders' issues and concerns are thoroughly addressed. RMTC planners provide clients with a means of engaging the public and the community in

meaningful dialogue at key points in the planning, design, and construction process. Approaches include facilitating public workshops, informational meetings, focus groups, stakeholder meetings and interactive planning and design working groups.

- Waimanalo Gulch Sanitary Landfill Lateral Expansion, Oahu (2004)
- Interstate Route H-1 Waimalu Viaduct Widening, Westbound Direction, Kaonohi Street Overcrossing to Pearl City Off-Ramp, Oahu (2003)

Projects / Public Involvement Programs

- Honolulu Harbor Master Plan, Oahu (ongoing)
- Nawiliwili to Ahukini Bike-Pedestrian Facility EA, Kauai (ongoing)
- Halawa-Luluku Interpretive Development, Oahu (2013) (*right*)
- Makakilo Drive Extension NEPA Environmental Assessment, Oahu (2010)
- Mayor’s Advisory Committee on Landfill Site Selection, Kauai (2009)
- Kapiolani Water and Sewer Improvements, Oahu (2006)
- Beachwalk Wastewater Pump Station, Oahu (2006)



RMTC planners coordinate a planning charrette with members of the Native Hawaiian community for the Halawa-Luluku Interpretive Development Plan, a cultural preservation effort in Halawa Valley, Oahu.

Technical Personnel: Planning Department

Name Title	Years of Professional Experience	American Institute of Certified Planners	Masters In Urban and Regional Planning	LEED AP
Tanoue, David Vice President / Manager, Surveying & Planning Departments	34		Juris Doctor*	
Takeda, Brian Planning Project Manager	37		■	
Niermann, James Planning Project Coordinator	27	■	■	■
Staples, Kelly Senior Planner	12		**	
Lee, Roxanne Planner	9		***	G.A.
Sato, Isalah**** Assistant Planner II	8			
Marchant, Michelle Assistant Planner II	6			
Harrison, Alec Assistant Planner II	4		*****	
Eaton, Alena Assistant Planner I	3			
TOTAL	9 people	1	2	2

* Mr. Tanoue is a licensed attorney (Hawaii State Bar Association).

** Ms. Staples has a Master of Science Degree in Natural Resources and Environmental Management.

***Ms. Lee Has a Master of Landscape Architecture Degree.

**** Mr. Sato is a Professional Civil Engineer licensed in Hawaii.

*****Mr. Harrison has a Master of Science Degree in Natural Resource Management.