GWA RESOLUTION NO. 19-FY2023

RELATIVE TO APPROVAL OF THE ID/IQ WATERLINE REPLACEMENT DESIGN AND CM CONTRACT

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, the Water Resource Master Plan Update 2018 (WRMP) developed and included a list of potential waterline replacement projects under Volume 2 of the WRMP Table 8-9 Candidate Projects for Water Pipeline Rehabilitation and Replacement and Table 8-12 Candidate Project Budgetary Cost Estimates for Pipeline Rehabilitation and Replacement; and

WHEREAS, in accordance with the CCU-approved 5-year Improvement Program addressing the 2011 Court Order, upcoming EPA compliance requirements, and other regulatory requirements, GWA continues to make improvements to the water system by issuing projects that will reduce water loss, improve water supply, and create pressure zones by installing new or replacing existing waterlines; and

WHEREAS, GWA has advertised the Request for Proposals (RFP-03-ENG-2022) soliciting statement of qualifications from experienced and qualified engineering firms to provide design and construction management services for the Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and Construction Management Services for Waterline Replacement and Upgrades; and

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WHEREAS, 23 interested parties registered for the RFP package, from which GWA received proposal submittals from 8 firms before the RFP submittal deadline; and

WHEREAS, the GWA Architect-Engineer Selection committee reviewed and evaluated the 8 proposals (See Exhibit A – Evaluation Score Summary) and generated a short list of the top 3 firms with a recommendation to award a contract to the firm Duenas, Camacho, and Associates (See Exhibit B – GM's Determination); and

WHEREAS, Duenas, Camacho, and Associates and GWA negotiated the fee proposal for the design and construction management services for the Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and Construction Management Services for Waterline Replacement and Upgrades to be provided in the total amount of Five Million Nine Hundred Seventy-Three Thousand Six Hundred Eighty-Two Dollars ($5,973,682.00) (See Exhibit C – Scope of Work and Fees); and

WHEREAS, GWA management seeks approval of the negotiated fee proposal in the amount of Five Million Nine Hundred Seventy-Three Thousand Six Hundred Eighty-Two Dollars ($5,973,682.00) and approval to award a portion of the negotiated fee proposal in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00); and

WHEREAS, GWA shall issue Task Orders for development of a master list of replacement sites and design and construction management of sites, which GWA have identified for immediate replacement; and

WHEREAS, funding in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00) will be from the USEPA grants; and

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

1. The recitals set forth above hereby constitute the findings of the CCU.

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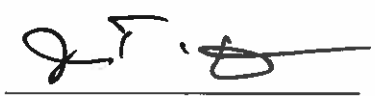
2. The CCU finds that the terms of the fee proposal submitted by Duenas, Camacho, and Associates are fair and reasonable.

3. The CCU hereby authorizes the management to accept the fee proposal in the amount of Five Million Nine Hundred Seventy-Three Thousand Six Hundred Eighty-Two Dollars ($5,973,682.00) from Duenas, Camacho, and Associates, which is also incorporated into this Resolution in its entirety (Exhibit C).

4. The CCU hereby further authorizes the management of GWA to enter into an ID/IQ contract with Duenas, Camacho, and Associates, in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00).

5. The CCU hereby further approves the total funding amount for this project in the amount of One Million Five Hundred Thousand Dollars ($1,500,000.00).

6. The CCU hereby approves the use of funding source(s) from USEPA grants.

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED, this 3rd day of April 2023.

Certified by: Attested by:

JOSEPH T. DUENAS   **PEDRO ROY MARTINEZ**
Chairperson   Secretary

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SECRETARY'S CERTIFICATE

I, Pedro Roy Martinez, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES: 5

NAYS: 0

ABSENT: 0

ABSTAIN: 0

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GUAM WATERWORKS AUTHORITY

Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

July 26, 2022

To: Barbara C. Cruz, P.E.
Acting Chief Engineer

From: Josephine E. Smith, PMBA *(signature)*
Chairperson, Consultant Selection Board

Subject: RFP-03-ENG-2022
Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and
CM Services for Waterline Replacement and Upgrades
GWA Project No. W22-04-BND

The following information is intended to document the evaluation process undertaken for the referenced solicitation:

EVALUATION COMMITTEE MEMBERS	
Name	**Title**
Garrett K.A. Yeoh	Senior Engineer
Jessey A. Mendiola	Junior Engineer
Ryan B. Diaz	Junior Engineer
William F. Esteves	Junior Engineer

Offerors	Evaluation Score				Total	Rank
1. Duenas, Camacho & Associates, Inc.	81	84	96	96	357	1
2. GHD	77	81	93	95	346	2
3. Brown and Caldwell	76	76	92	86	330	3
4. AECOM Technical Services, Inc.	75	76	77	94	322	4
5. TG Engineers, PC	71	76	70	88	305	5
6. HDR	75	76	64	86	301	6
7. SSFM International	68	68	71	83	290	7
8. E.M. Chen & Associates, Inc.	70	70	68	71	279	8

Scores were evaluated based on the sum of individual scores. The recommendation of the Evaluation Committee is shown in the ranking above.

For your review and approval. Notification letters will be issued thereafter.

Approved by:

(signature)

Barbara C. Cruz, P.E.

GUAM WATERWORKS AUTHORITY

Gloria B. Nelson Public Service Building 688 Route 15 Mangilao, Guam 96913

MEMORANDUM

To: Miguel C. Bordallo, P.E.
            General Manager

From: Barbara C. Cruz, P.E.
            Acting Chief Engineer

Subject: RFP-03-ENG-2022
            Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and
            CM Services for Waterline Replacement and Upgrades
            GWA Project No. W22-04-BND

Date: July 27, 2022

The Selection Committee has completed all necessary actions for selecting the most qualified consultants for the referenced solicitation. All proposals were reviewed and scored according to the conditions established in the solicitation. The evaluation summary sheet is attached for your information.

The committee recommends the following top three (3) firms in order of preference for the project:

1. Duenas, Camacho & Associates, Inc.
2. GHD
3. Brown & Caldwell

Concurred:

Vincent Guerrero   7-27-2022
Vincent E. Guerrero   _ Date
Supply Management Administrator

GENERAL MANAGER'S DETERMINATION

Consultant Firm Selected:

Duenas Camacho & Associates

Remarks:

Miguel C. Bordallo, P.E   14. 7. 2022
General Manager   Date

Website: www.dcaguam.com
Email: dca@dcaguam.com

February 20, 2023
Miguel C. Bordallo, P.E.
General Manager, Guam Waterworks Authority
Gloria B. Nelson Public Service Building
688 Route 15 Mangilao, Guam, 96913

Attn: Garrett Yeoh, GWA Engineering Project Manager

Subject: **Indefinite Delivery Indefinite Quantity (ID/IQ) for Engineering Design and CM Services for Waterline Replacement and Upgrades**

Re: **Design Fee Proposal, revision 1**

Hafa Adai Mr. Yeoh,

Dueñas, Camacho & Associates (DCA) is pleased to submit the following fee proposal for engineering services for the subject project. The fees were developed using the projects listed in the 2018 Masterplan table 8-12 and the attached scope of work provided by GWA and amended. A list of the specific project numbers taken from the masterplan is provided in the attached fee breakdown.

Plans, specifications, and cost estimates	$	3,428,339.78
Program Management	$	73,032.00
Survey services	$	478,378.00
Hydraulic modeling services	$	52,208.22
Geotechnical services	**$**	**330,000.00**
UXO services	**$**	**90,000.00**
Archaeological services	**$**	**467,500.00**
Environmental and biological services	**$**	**154,224.00**
Property and land acquisition services	**$**	**50,000.00**
GPR and line location services	**$**	**100,000.00**
Construction Management	**$**	**750,000.00**
Total	$	5,973,682.00

- **Items in bold are time and materials based estimates.**

Based on discussions with GWA, it is GWA's intent to award this project as task orders. DCA requests an annual escalation increase of 3% on the personnel rates shown in the attached fee breakdown starting in 2024. DCA will provide our updated insurance policy as soon as it is received from our insurer.

Sincerely,

Kenneth M. Rekdahl, P.E.
Vice-President
Dueñas, Camacho & Associates, Inc.
Attachment: Scope of Work, Fee Proposal

ENGINEERING * PLANNING * SURVEYING * ENVIRONMENTAL SERVICES * GEOGRAPHIC INFORMATION SYSTEM * CONSTRUCTION MANAGEMENT
GUAM P.O. Box 8900, Tamuning, Guam 96931 / 238 E. Marine Corps Drive, Suite 201 Diamond Plaza, Hagåtña, GU 96910 / Tel: (671) 477-7991 / Fax: (671) 479-6315
SAIPAN Caller Box PPP, Suite 164, Saipan, MP 96950 / Chalan Pale Arnold, Ada's Building South Garapan, Saipan 96950 / Tel: (670) 234-9017 / Fax: (670) 234-3842

SCOPE OF WORK (12.16.2022)

Indefinite Delivery/Indefinite Quantity (ID/IQ) for Engineering Design and CM Services for Waterline Replacement and Upgrades

GWA Project No. W22-04-BND

This ID/IQ will focus on sites which require removal of old pipeline and installation of new appropriately sized waterline around the island. The consultant shall work with GWA to develop a master list and prioritize locations for waterline replacement. From the master list, GWA shall select sites for the A/E to proceed with complete design ready for construction bid.

Engineering services will include, but not be limited to the following:

1. PS&E: Plans, Specifications, and Cost Estimate Development. Develop design for waterline distribution improvements and replacement. The work shall include full plans, specifications, and cost estimates at the 30% (basis of design), 60%, 90%, and 100% phases.
2. Engineering program management to include developing master list of line replacement sites which incorporates GWA's Master Plan, GWA Operation's input for areas of high breakage rates, and site field investigations by the ID/IQ A/E and GWA. Sites shall be prioritized based on area of coverage, breakage rates, cost, and other relevant factors.
3. Survey services
4. Ground penetrating radar services
5. Archaeological services
6. Environmental and biological services
7. Property and land acquisition services
8. Hydraulic modeling services
9. Coordinating and facilitating various task with local and federal agencies for grants, general agency review, and permitting.
10. IFB preparation and bidding services to include RFI bid responses, Addendum preparation, bid evaluation/recommendation, and all other task necessary to assist the bid process.
11. Provide construction management services
    a. Site management
    b. Conduct weekly meetings
    c. Construction inspection
    d. Quality assurance testing

e. Submittal, RFI, shop drawing review
f. Payment request review
g. Change order review and recommendation

The consultant shall furnish, in accordance with the agreed upon schedule, a complete, practical, economical design, plans, specifications, and related corrections and changes which are best suited for the contemplated construction, and ensure all work is completed in accordance with this Agreement and with sound engineering principles and is signed and sealed by a licensed Professional Engineer. The consultant shall provide all calculations, data, charts, field date, and other information of any type whatsoever which support its designs or other work performed pursuant to this Agreement. Proposer may not assert as a basis for refusing to provide such information that it is proprietary. Consultant shall satisfy GWA with design decisions that are based on objective evaluation of the requirements of the facility owner and user, meet site-specific conditions, comply with Project construction cost budget, and minimize long-term operation and maintenance costs. The consultant is aware and agrees that GWA has the right to submit the Consultant's work product to independent design reviewers and will make the necessary revisions based on GWA and it's third party review (if any).

The contract will provide for the issuance of Task Orders (TO) requiring a variety of engineering and construction services as needed and determined by GWA. Each TO will be negotiated with the consultant. The contract as noted is an Indefinite Delivery Indefinite Quantity (ID/IQ) type contract and GWA does not guaranteed any number of TO to be issued. GWA also does not guarantee a minimum or maximum dollar value of TO's placed with the consultant.

Examples of the types of work under this RFP includes, but not limited to, general waterline replacement/upgrades, etc.

Task Order Scopes of Work for Design and Construction Management

1. Design Services to be provided by the Consultant:

   a. Project Management: The consultant shall develop a work plan and schedule for the scope of work to be accomplished within the agreed performance time of the TO's. The schedule shall include reasonable time periods for any review by GWA or other government agency (such as EPA, GEPA, etc.). Projects shall require reoccurring meetings during the progress of the work. Design meetings to discuss the overall plan, requirements, constraints, expectations, outcomes, design

features, design progress, and other project specific elements for discussion between GWA and the consultant to coordinate work.

b. Design: GWA anticipates that a TO shall be issued to begin developing the Master List of sites which require abandonment and replacement of waterlines of various sizes. Sites shall be selected from the Master List for design. TO's shall be issued for design of the sites.

The consultant shall prepare a basis of design for each design (30% phase). As part of the design, the consultant shall collect and review, from GWA and other sources, data required to design facilities outlined in each TO. Site-visits will be required to completely comprehend the scope of work, the design needs, and the necessary data collection. The consultant shall identify any constraining factors that affect design and construction. The consultant shall coordinate and meet with GWA to review available "as-builts" of existing water and other utilities. The basis of design shall establish the design criteria, define preliminary routing of the proposed pipelines, location of control valves, pumping stations, identify right-of-way limits, list questions needing answers for the design, and list decision items. Once the basis of design has been accepted by GWA, the consultant shall move into the design phases.

Following approval of the basis of design, the consultant shall proceed with design for the complete scope of work as outlined in each TO and prepare all engineering and hydraulic calculations, perform all field work, prepare construction plans, specifications, and estimate the cost of construction at the 60%, 90% and 100% phases.

c. Geotechnical Studies: When required by TO, the consultant shall conduct explorations for geotechnical investigation to determine subsurface conditions, soil properties, and groundwater levels as required for excavation information, foundation parameters, and related engineering information or anticipated construction conditions. A geotechnical report shall be prepared and submitted to GWA to include maps, boring records, soil type, allowable soil bearing capacity, pipe backfill suitability of in-situ soils, presence of groundwater water encountered, and all other pertinent information required to complete the scope of work.

d. Field Surveys: When required by TO, the consultant shall conduct surveying for the purposes of a topographic survey, right-of-way, and developing design and construction drawings for the proposed facilities as described in each TO scope of work. The survey must indicate easements, property lines, existing utilities, existing water meters, edges of pavement, driveways, existing buildings, structures, trees, and fences within the vicinity of the project.

e. Additional Design Services: As may be necessary for specific work, other additional design services such as archeological review, environmental permitting, biological surveys, ground penetrating radar services, property acquisition and survey services, pressure logging and flow metering equipment procurement, and all other services as described in Section W.

2. Construction Management Services to be provided by the Consultant:

a. Pre-Construction: the following elements of construction activity are required during the pre-construction stage of construction management. The consultant shall perform these tasks when required in a TO.

From the time of issuance of the Notice to Proceed (NTP for pre-construction activities prior to the issuance of DPW building permit), all duties listed in this section, at a minimum, shall be part of the CM's daily duties within typical working hours.

- Conduct pre-construction conference. Agenda shall be developed by the consultant.
- Conduct weekly meetings.
- Review Contractor's submittal and construction schedule.
- Review Contractor's master submittal log.
- Review all submittals for conformance with plans and specifications. Submittals to include product and material data, shop drawings, outage plans, schedule updates, and RFIs'.
- Review Contractor's safety and traffic control plans.
- Review the Storm Water Pollution Prevention Plan.
- Ensure that Contractor has applied for all required permitting to being the project.

- Set up and maintain Construction Management Software: ProCore

b. Construction: the following elements of construction activity are required during the construction stage of construction management. The consultant shall perform these tasks when required in a TO.

From the time of issuance of the NTP (after issuance of the DPW building permit), all duties listed in this section, at a minimum, shall be part of the CM and Inspectors daily duties within typical working hours.

- Monitor and inspect daily construction activities in compliance with the contract, plans and specifications, and applicable codes and regulations.
- Witness all quality control testing by the Contractor.
- Maintain Construction Management Software (ProCore). All submittals shall be submitted through the management software.
- Conduct quality assurance testing and surveying as required by the plans and specifications.
- Prepare correspondences as requested by GWA.
- Conduct Davis-Bacon interviews if the construction project is grant funded.
- Review progress payment requests for accuracy and proper reflection of actual work performed and make recommendations to GWA regarding appropriateness and approval.
- Review contractor submitted payroll records for each payment request according to contract requirements.
- Issue directives and corrective action notices dealing with quality of workmanship, non-compliance, safety, and performance.
- At GWA's request, prepare field orders to change specific scope of work requirements.
- Schedule and coordinate all inspection, surveys and material testing.
- Review updated contractor's progress schedule and recommend approval or rejection to GWA.
- Verify contractor's material supply list with regard to delivery timetable, progress schedule, and justification for payment.
- Analyze and participate in negotiating claims and contract change requests; recommend action deemed appropriate.

- Prepare for GWA approval, change orders to modify the terms of the contract (change in cost, performance time, or technical provisions). Make changes to the design as necessary.
- Provide daily construction reports which includes pictures of construction highlighting deficient work, safety violations, examples of acceptable work, and other critical items. Reports shall be in ProCore.
- Maintain a set of as-built drawings recording all installed facilities, deviations from the original plans, details of installation, encountered subsurface features and utilities, and critical dimensions. This set of As-Built drawings is to be separate from the Contractor's as-built drawing set. The purpose of this task is to ensure that the CM has their own set to check against the Contractor's set of drawings.
- Conduct weekly (or specified meeting interval) project meetings with the contractor and GWA to discuss work progress and any concerns relating to the construction.
- Witness field tests performed by the construction contractor or his representative for compliance with the contract drawings and specifications.
- Inspect construction, installation, and assemblage of work agreed to with GWA. Verify conformance to the contract provisions and check for acceptable workmanship. Report acceptable and unacceptable work to GWA.

c. Post Construction: the following elements of construction activity are required during the post-construction stage of construction management. The consultant shall perform these tasks when required in a TO.

- Lead pre-final inspection and prepare a list of incomplete work to be completed before substantial completion and final completion.
- Determine the date of substantial completion according to the contract terms.
- Lead final inspection and prepare a punch list of deficiencies to be completed before final acceptance and final payment.
- Perform or observe all operational testing for proper operation, functionality, and performance. Accumulate all performance test data and submit to GWA.

- Verify final quantities installed and note differences from the estimated contract amount.
- Accumulate and provide to GWA all records, documents, submittals, log books, files, test results, etc.
- Review contract required warranties, O&M manuals, etc. and verify full compliance by the contractor.
- Provide a final review of construction contractor's as-built drawings and transmit the as-built drawings to GWA.
- Provide CM's as-built drawings and transmit to GWA.

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Task Description

Task Description	No. of Days	Principal	Principal Structural	Project Manager	Assistant Project Manager	Professional Structural Engineer	Professional Civil Engineer - Special Projects	Professional Land Surveyor	Project Engineer	Civil Engineer	Structural Engineer	Staff Engineer/Designer	Specifications Writer	Planning & Services	Engineering Technician	CAD Technician	Professional Surveyor	Assistant Surveyor	Party Chief	Survey Field Technician	Cartographer	Instrument	Survey Chainer / CAD Operator	Survey Aide	2-Man Crew	3-Man Crew	4-Man Crew	Chief of Environmental	Environmental Scientist	GIS Manager	Drill Tech	Sr Env PM	Construction Manager	Project Controls	Construction Inspector				Total
Gross Labor Rate		$195.00	$196.00	$260.00		$200.00	$265.00		$150.00	$175.00		$105.00	$167.00	$114.00	$72.00	$73.00	$125.00			$94.00	$88.00	$70.00	$62.00	$50.00	$129.00	$146.00	$168.00	$130.00	$76.00	$95.00	$98.00	$104.00	$105.00	$110.00	$97.00				
Total Burden Labor Rate	183504	0	0	190	0	0	2807	9096	0	9454	1	0	0	10600	83		14		0	0	176	1916	0	0	2032	0	676	600	171	30								$4,198,102.00
A.	179314	0	0	190	0	0	2662	9096	0	9454	189	0	0	10600			14		0	0	48	1916	0	0	2032	0	676	600	171	30								$3,997,804.00
1 Project Planning							8	16																															$ -
2 Design QC																																							$ 8,373.00
3 Project Administration							24			40							8	24			40						24	40											$ 22,412.00
4 Site visit								42		162											30																		$ 25,600.00
5 Coordination Meeting							34	16		72								53									17	17											$ 19,628.00
6 Review of Submittal and preparation							32	195																			628	600	140	30									$ 138,912.00
7 Specifications											40																												$ 7,888.00
8																																							$ -
9																																							$ -
10																																							$ -
11																																							$ -
11 Project 1	18648 B																																						$ -
12 TS and notes	5						8	13		18				24																									$ 9,915.00
13 Site ESC and C&G	42						42	168		216				336																									$ 82,782.00
14 Plan & Profiles	11						71	64		175				164																									$ 61,191.00
15 TCP	11						11	44		66				44																									$ 11,841.00
16 Details	3						11	13		16				16																									$ 26,521.00
17 BOR							8	16																															$ 5,172.00
18 RFP Packaging					3		8	8			4			16																									$ 4,668.00
19 Coordination					4		16																																$ 4,536.00
20																																							$ -
22 Project 2	9396 B																																					$ -
22 TS and notes	5						8	12		16				24																									$ 5,915.00
23 Site ESC and C&G	40						40	160		208				320																									$ 73,840.00
24 Plan & Profiles	20						20	80		120				100																									$ 39,420.00
25 TCP	10						10	40		60				40																									$ 15,718.00
26 Details	3						8	13		16				24																									$ 26,521.00
27 BOR							8	16																															$ 5,172.00
28 RFP Packaging					3		8	8			4			16																									$ 4,668.00
29 Coordination					4		16																																$ 4,536.00
30																																							$ -
33 Project 4	9613 B																																					$ -
33 TS and notes	3						8	12		18				24																									$ 5,915.00
34 Site ESC and C&G	24						24	96		144				192																									$ 47,984.00
35 Plan & Profiles	12						12	48		72				86																									$ 23,652.00
36 TCP	9						8	13		36				68																									$ 11,816.00
37 Details							8	13		36				64																									$ 26,521.00
38 BOR							8	16																															$ 5,172.00
39 RFP Packaging					3		8	8			4			16																									$ 4,668.00
40 Coordination					4		16																																$ 4,536.00
41																																							$ -
44 Project 6	8768 B																																					$ -
41 TS and notes	5						8	12		18				24																									$ 5,915.00
42 Site ESC and C&G	26						10	80		80				128																									$ 31,596.00
43 Plan & Profiles	5						8	52		45				64																									$ 15,768.00
44 TCP	4						4	16		24				32																									$ 7,864.00
47 Details	9						8	16		36				38																									$ 20,521.00
48 BOR							8	16																															$ 5,172.00
49 RFP Packaging					3		8	8			4			16																									$ 4,668.00
50 Coordination					4		16																																$ 4,536.00
51																																							$ -
51 Project 6	8412																																					$ -
53 TS and notes	5						8	12		18				24																									$ 8,913.00
54 Site ESC and C&G	14						14	56		84				112																									$ 27,994.00
55 Plan & Profiles	9						9	36		48				56																									$ 13,767.00
56 TCP	4						4	16		32				32																									$ 7,864.00
57 Details	9						8	16		56				56																									$ 10,521.00
58 BOR							8	16																															$ 5,172.00
59 RFP Packaging					3		8	8			4			16																									$ 4,668.00
60 Coordination					4		16																																$ 4,536.00
61																																							$ -
61 Project 11	7697 B																																					$ -
63 TS and notes	9						8	12		18				24																									$ 5,915.00
64 Site ESC and C&G	60						60	120		160				240																									$ 99,190.00
65 Plan & Profiles	15						15	60		90				120																									$ 29,593.00
66 TCP	8						8	32		48				64																									$ 15,768.00
67 Details	9						8	16		36				36																									$ 20,521.00
68 BOR							8	16																															$ 5,172.00
69 RFP Packaging					3		8	8			4			16																									$ 4,668.00
70 Coordination					4		16																																$ 4,536.00
71																																							$ -
72 Project 13	8863 B																																					$ -
73 TS and notes	5						8	12		14				24																									$ 5,915.00
74 Site ESC and C&G	36						36	144		216				288																									$ 70,896.00
75 Plan & Profiles	18						18	56		144				244																									$ 35,472.00
76 TCP	9						8	32		54				72																									$ 17,739.00
77 Details	9						8	16		56				56																									$ 16,521.00
78 BOR							8	16																															$ 5,172.00
79 RFP Packaging					3		8	8			4			16																									$ 4,668.00
80 Coordination					4		24																																$ 4,536.00
81																																							$ -
82 Project 18	11721 B																																					$ -
83 TS and notes	5						8	12		18				24																									$ 5,915.00

DCA

Task Description

No. of Item	Task Description			Total
	Total Shift ($ per task and Other)			$ 4,186,102.00
84	Line E&C and C&G	44		96,600.00
85	Plan & Profiles	16		47,964.00
86	TCP	10		13,452.00
87	Details	9		16,521.00
88	BOD			3,172.00
89	MP Packaging			4,068.00
90	Coordination			4,946.00
91				-
92	Project 14			-
93	TS and notes			3,913.00
94	Line E&C and C&G	4		7,464.00
95	Plan & Profiles	7		3,042.00
96	TCP	1		1,971.00
97	Details	9		16,521.00
98	BOD			3,172.00
99	MP Packaging			4,068.00
100	Coordination			4,946.00
101				-
102	Project 15			-
103	TS and notes			3,913.00
104	Line E&C and C&G	16		27,396.00
105	Plan & Profiles	7		33,797.00
106	TCP	4		7,684.00
107	Details			16,521.00
108	BOD			3,172.00
109	MP Packaging			4,068.00
110	Coordination			5,824.00
111				-
112	Project 16			-
113	TS and notes			3,913.00
114	Line E&C and C&G	26		36,348.00
115	Plan & Profiles	18		23,673.00
116	TCP	7		13,797.00
117	Details	9		16,521.00
118	BOD			3,172.00
119	MP Packaging			4,068.00
120	Coordination			5,824.00
121				-
122	Project 17			-
123	TS and notes			3,913.00
124	Line E&C and C&G	10		18,710.00
125	Plan & Profiles	5		8,855.00
126	TCP	5		5,911.00
127	Details			16,521.00
128	MP Packaging			3,172.00
129	Coordination			4,068.00
130				5,824.00
131				-
132	Project 20			-
133	TS and notes			3,913.00
134	Line E&C and C&G	32		53,073.00
135	Plan & Profiles	16		21,396.00
136	TCP	4		13,748.00
137	Details	9		16,521.00
138	BOD			3,172.00
139	MP Packaging			4,068.00
140	Coordination			9,014.00
141				-
142	Project 22			-
143	TS and notes			3,913.00
144	Line E&C and C&G	32		43,362.00
145	Plan & Profiles	33		31,641.00
146	TCP	6		13,826.00
147	Details	5		16,521.00
148	BOD			3,172.00
149	MP Packaging			4,068.00
150	Coordination			5,824.00
151				-
152	Project 23			-
153	TS and notes			3,913.00
154	Line E&C and C&G	54		97,014.00
155	Plan & Profiles	17		59,367.00
156	TCP	9		17,399.00
157	Details	9		38,372.00
158	BOD			3,172.00
159	MP Packaging			4,068.00
160	Coordination			5,824.00
161				-
162	Project 24			-
163	TS and notes			3,913.00
164	Line E&C and C&G	84		185,174.00
165	Plan & Profiles	47		92,017.00
166	TCP	36		47,364.00

This page is a wide engineering fee-estimate spreadsheet with a header logo "DCA" and a "Task Description" column followed by many role/rate columns (Principal, Principal Structural, Project Manager, Assistant Project Manager, Professional Structural Engineer, Professional Civil Engineer + Special Studies, Professional Land Engineer, Project Engineer, Civil Engineer, Structural Engineer, Staff Engineer/Designer, Specification Writer, Quality Surveyor, Engineering Technician, CAD Technician, Professional Surveyor, Associate Surveyor, Party Chief, Survey Field Technician, Cartographer, Researcher, Survey Station / CAD Operator, Survey Asst, 2-Man Crew, 3-Man Crew, 4-Man Crew, Chief of Survey, Administrative, GIS Manager, GIS Tech, Sr Env PM, Geoscience Manager, Project Coordinator, Administrative Support) and a final **Total** column.

#	Task Description	Total
167	Details	$ 33,501.00
168	BOD	$ 5,172.00
169	RFP Packaging	$ 4,066.00
170	Coordination	$ 5,824.00
171		
172	Project 25	
173	FS and notes	
174	Site ESC and C&G	$ 5,913.00
174a		$ 27,594.00
175	Plan & Profiles	$ 13,797.00
176	TCP	$ 7,864.00
177	Details	$ 10,521.00
178	BOD	$ 3,172.00
179	RFP Packaging	$ 4,066.00
180	Coordination	$ 5,824.00
181		
182	Project 27	
183	FS and notes	$ 5,913.00
184	Site ESC and C&G	$ 73,890.00
185	Plan & Profiles	$ 33,420.00
186	TCP	$ 18,710.00
187	Details	$ 10,521.00
188	BOD	$ 3,172.00
189	RFP Packaging	$ 4,066.00
190	Coordination	$ 5,824.00
191		
192	Project 28	
193	FS and notes	$ 5,913.00
194	Site ESC and C&G	$ 47,864.00
195	Plan & Profiles	$ 33,397.00
196	TCP	$ 17,799.00
197	Details	$ 10,521.00
198	BOD	$ 3,172.00
199	RFP Packaging	$ 4,066.00
200	Coordination	$ 5,824.00
201		
202	Project 29	
203	FS and notes	$ 5,913.00
204	Site ESC and C&G	$ 100,000.00
205	Plan & Profiles	$ 63,041.00
206	TCP	$ 33,997.00
207	Details	$ 10,521.00
208	BOD	$ 3,172.00
209	RFP Packaging	$ 4,066.00
210	Coordination	$ 5,824.00
211		
212	Project 30	
213	FS and notes	$ 5,913.00
214	Site ESC and C&G	$ 63,041.00
215	Plan & Profiles	$ 21,641.00
216	TCP	$ 11,876.00
217	Details	$ 10,521.00
218	BOD	$ 5,172.00
219	RFP Packaging	$ 4,066.00
220	Coordination	$ 5,824.00
221		
222	Project 31	
223	FS and notes	$ 5,913.00
224	Site ESC and C&G	$ 33,470.00
225	Plan & Profiles	$ 17,719.00
226	TCP	$ 9,655.00
227	Details	$ 10,521.00
228	BOD	$ 3,172.00
229	RFP Packaging	$ 4,066.00
230	Coordination	$ 5,824.00
231		
232	Project 32	
233	FS and notes	$ 5,913.00
234	Site ESC and C&G	$ 70,996.00
235	Plan & Profiles	$ 35,478.00
236	TCP	$ 17,719.00
237	Details	$ 10,521.00
238	BOD	$ 3,172.00
239	RFP Packaging	$ 4,066.00
240	Coordination	$ 5,824.00
241		
242	Project 33	
243	FS and notes	$ 5,913.00
244	Site ESC and C&G	$ 86,724.00
245	Plan & Profiles	$ 48,562.00
246	TCP	$ 21,641.00
247	Details	$ 10,521.00
248	BOD	$ 3,372.00
249	RFP Packaging	$ 4,066.00